### CATALOGUE OF BOOKS

in the

### LIBRARY OF THE RAILWAY BOARD

Corrected up to February 1932.

(This cancels Revised Edition of 1925.)



SIMLA: GOVERNMENT OF INDIA PRESS 1932.



सम्बंध उपते

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The Catalogue has been divided into two parts for facility of reference. Part I shows the names of books arranged alphabetically in sections according to subjects. See "Contents" and index thereto.

Part II is an index to authors of books.

Library numbers of books are shown at the end of each entry on the right hand side.

The following illustrations will show how the books have been catalogued and why Library numbers with different sections appear in any particular section. The books entitled:—

- (1) Law of transport by Railway.
- (2) Deflection of suspension bridges. Inst. of C. Es. Engg. paper No. 1 by J. W. Spiller. 1923.
- (3) Car Builders Cyclopedia.
- No.  $\frac{(1)}{(2)}$  has been catalogued under section  $\frac{S(0)}{H(m)}$  and cross-referenced  $\frac{S(0)}{E(d)}$

under sections  $\overline{Q}$  and  $\overline{E}$  (a)  $\overline{D}$ .

Where necessary, entry of a book has been made more than once, with different eatch words, in the same section.

With each addenda slip an abstract will be sent in order that the holder of the Catalogue may, if he wishes, be able to tell whether all the addenda therein have been made in his copy. Blank pages have been left at the end of the Catalogue for the abstracts to be pasted.

G. C. LAUGHTON, Secretary, Railway Board.

SIMLA:

30th June 1932.



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### Rules for the issue of books from the Library of the Railway Board.

- 1. The books (except Encyclopædia, Dictionaries, Atlases and others of general reference which may not leave the Railway Board's Office), are available for loan to any railway official in India, on application being made by him, through the head of his railway department, to the Secretary, Railway Board.
- 2. On receipt of the application through the above channel, the Librarian will send the books at the cost of Government, direct to the applicant, who should acknowledge receipt by post card.
- 3. No book should be retained longer than one month, and not more than three books can be issued to one applicant at the same time.
- 4. If a book is retained by an applicant for any part of a second month without previous permission having been applied for and obtained, a penalty of Re. 1 will be imposed; for any part of a third month a further penalty of Re. 1 will be imposed; and if not returned by the end of the third month the full value of the book will be recovered.
- 5. When books are returned to the Librarian by post they should be sent under registered cover at the applicant's cost. Their receipt will be acknowledged by the Librarian by post card.
- 6. From the time books are issued to applicants until they are received back by the Librarian, the applicant is responsible for their condition and may be required to replace any such book lost or damaged.

G. C. LAUGHTON, Secretary, Railway Board.



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\*See Abstract Addenda and Corrigenda on pages 228-235.



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#### PART I.

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Crimes. Anarchical and Revolutionary — Act XI of 1919.	•
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- · · · - · ·	A. 76-2.
New — (English) Act, 1927. W. S. Kennedy.	A. 163. A. 77.
(magnan) Acu, 1321. W. D. Menneuy.	B. 11.

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Supply Acts (English), 1882 to 1922, (Proceedings), Report by the Ministry of Transport, 1926.
Supply Acts (English), 1882-1926.
English Railways—
Act, 1921. A survey of the work of the Railway Rates Tribunal. R. Prys. Griffiths, 1925.
Law of carriage for ——
Light — Terms and conditions as generally applicable to Electric Tramways or —. A. 189.
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Indian — Act XII of 1911 as modified up to 1st June 1926. A. 80.
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Law. Indian — administration. Bulletin of Indian Industries and Labour No. 8, 1921. A. G. Clow.
Ferries. Madras Canal and Public —— Act II of 1890 as modified up to 1st June 1915. A. 28.
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A collection of the Acts of the —— and of the Indian Le for the years 1881, 1913.	gjslature <b>A</b> .  <b>92</b> .
—— and Indian Legislature. Index to Acts of the————————————————————————————————————	for 1923, <b>A</b> .  <b>92-1</b> .
Great Britain and Ireland. Railway Companies in — Law with notes of all cases decided thereon. 3rd edition, 1899 Balfour Browne.	
High Court Decisions in Railway cases—	
1912. 2nd edition. M. Teruvenkatachariar.	<b>A</b> . 96-2.
Precedents of —— 1899.	A. 96.
—— with an appendix containing all the Indian Acts, etc.  Teruvcnkatachariar.	1901. M. A. 96-1.
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Industrial Courts Act, 1919. Report by a Court of Inquiry concerning

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Industrial Disputes Investigation Act. 1907—
An Act to aid in the prevention and settlement of strikes and loci outs in mines and industries connected with public utilities Board of Trade Publication.  A. 172
Reports of the Registrar of Board of Conciliation and Investigation of the Proceedings under the —— for 1911, 12 and 13 (Volumes).
Report to the Board of Trade on the —— of Canada. Y (d) 3-3
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Act I of 1894 and Act XVIII of 1885. A Manual for the guidance of officers in the administration of Land Acquisition Acts. 1902. Δ. 107.2
Act I of 1894 and Act XVIII of 1885. 6th edition, 1911. H. Beverly and F. E. Pargiter. A. 107-3
Manual, Bengal, 1910 and 1917.
Land Conveyance Act No. XXXI of 1854, as modified up to 1st June 1900.
Land Encroachment Act, Madras. No. III of 1905, as modified up to

Land, Madras Estates — Act I of 1908, modified up to 1st Decem-

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ber 1915.

Land Revenue Assessment, Madras, Act 1 of 1876 modified up to 1st June 1915. A.   110.
Law
Negligence in —— 3rd edition. Vol. I-General relations. 1908.  Thomas Beven. A.  116.
Negligence in —— 3rd edition. Vol. II-Special relations arising out of contract. 1908. Thomas Beven. A.  116.
—— and Orders in force in Bengal. Guide to —— 1925, Volume I. Part I, Index to Laws. A. 13.
—— and Orders in force in Bengal. Guide to —— 125, Vol. XI. Circulars and Orders; Land Acquisition and Land Revenue.  A.  13.
—— and Orders in force in Bengal. Guide to —— 1925. Volume XVII. Circulars and Orders. Public Works, Railways, Registration, Revenue Department (Miscellaneous) and Veterinary.  A. 13.
Legislation—
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Naturalization-

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High Court Decisions in — with an appendix containing a Indian Acts, etc., 1901. M. Teruvankatachariar. A. High Court Decisions in — 2nd edition. 1912. M. Teruvankatachariar.	96-1.
Law. An epitome of —, 1921. E. E. G. Williams.	. 148.
Regulations. A collection of public General Acts for the 1830—1874. James Bigg.	
Report on — under Foreign and Domestic I 1901. B. H. Meyer.	L49-1.
Bailways Act, 1921 (English). A survey of the work of the Rai	lway . 150.

Railways—
—— and Canals Traffic Acts. 1854—1913. 36th Annual Report with Appendix. 1925. A. 151-1.
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Belgian —— National Society of —— Law and Statutes relating to the ——, 1926.  A.  8.
Bill, 1930. A Bill to amend the law relating to the valuation for rating purposes of hereditments occupied by Railways (English Railways Bill).  A.  29.
British India. The law relating to —— 1891. H. E. Trevor. A. 153.
Canadian — Act, 1919.
Canadian — Act A E VIII C 58 S. I. A. 30.
Great Britain and Ireland. Law of — being a collection of the Acts and Orders relating to — with notes of all cases decided thereon. 3rd edition, 1899. J. M. Balfour, Browne and H. S. Theobald. A. 95.
Indian — Act, 1890, as modified up to 1st June 1909. A. 154.
New edition, 1903. Messrs. L. P. Russen and V. B. F. Bayley.  A. 1541.
Act No. IX of 1890 with case law thereon. 1910. T. V. Sanjiva Row. A. 154-2.
Act No. 1X of 1890, 2nd edition, 1917, 3rd Edn., 1923 and 4th Edn., 1929. Dayabhai Popatlal. A. 1543.
and common carriers law. 1880. W. G. Macpherson. A. 35.
Law of carriage by — in Great Britain and Ireland by L. R. Lipsett and T. J. Atkinson.  A. 33.
Law of — Companies and Railway Investments, 7th edition by Sir William Hodges and J. M. Lely.
Vol. I—The Law of Railways, 1888.
Vol. II—Statutes, Rules, Forms and Standing Orders of Parliament, 1889. A. 155.
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# SECTION A.—STATUTES (ACTS, CODES AND MISCELLANEOUS LEGAL BOOKS)—contd.

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Disputes Act No. VII of 1929.
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Union(s). Indian —— Act No. XVI of 1926. A. 174.
Union(s). A handbook of Indian Law, 1930 (being a commentary on the Indian Trade Unions Act, 1926, with regulations made by Local Government thereunder and including the Trade Disputes Act, 1929 and Madras Rules thereunder). T. A. Anantha Aiyar.
Tramways—
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Peace Ordinance No. I of 1920.
Peace (Austria) Ordinance No. IV of 1920. A. 6.
Versailles of 26th June 1919. International Labour Organisation
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Tribes. Criminal — Act No. VI of 1924.  A. 60.
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Town Area Manual.	A. 179.
United States of America. Commerce in the —— Act to regulation.  1906. Interstate Commerce Commission publication.	A. 45.
Unrepealed General Acts of the Governor General in Council 1834 to 1913 (Volumes: I to VII):	il from A. 86.
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Valuation of Rating (English Railways) Bill, 1930, to amend relating to the valuation for rating purposes of hereditamen pied by Railway Companies and for purposes connected with.	the law
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Compensation Rules, 1924 and Returns prescribed under the 1923, 1930.	•

### SECTION B(a).—INTERNAL COMBUSTION ENGINES.

Engines—
Diesel — running and maintenance. 1927. P. H. Smith.
B(a) 1.
Marine. Running and Maintenance of. 1927. J. Lam's. B(a) 2.
Gas —— Principles of. Instruction paper. Rly. Educational Bureau. Y(a) 8E-1.
Heat — Testing of. Institution of Civil Engineers. Lecture to students by H. B. J. Burstall. 1927. H(m) 1E-3.
Locomotives—
Internal combustion —. 1925. J. W. Bobson. B(a) 3.
Internal Combustion —. An article read before the Manchester Association of Engineers in 1927. By G. E. Windeler.
H(a) 14.
Motor(s)—
McKeen Gasolin —— ear. Instruction paper by the Railway Educational Bureau. Y(a) 8E-2.
Internal combustion —. Standard cycle for all types of. Engg. paper No. 33. 1926. W. J. Walker. H(m) 1J-33.
Motive Power—
Engines. The testing of ——. (Internal combustion engines, etc.). 1920. R. Royds. E(f)-11.
- in India, its cost and selection. 1918. F. E. Bharucha. E(f)-12.

#### SECTION B(b).—LOCOMOTIVES, BOILERS AND ENGINES.

Boilers-
Construction Code. 1927. A. S. M. E. B(b)
House heating —. Fuel tests with ——. University of Illino Bulletin No. 31. 1909. V(a) 1-
Layout work. First course. Instruction paper. Rly. Educations Bureau. Y(a) 8-I
Laws Committee. Report of the —. 1921. H(c)
Losses. Study of ——. University of Illinois Bulletin No. 78 1915. A. P. Kratz. V(a) 1-34
Steam raising plants. Chemical technology of ——. 1931. H. N. Bassett. B(b) 23
Unfired pressure vessels. Rules for the construction of Boiler Construction Code. A. S. M. E. 1927. <b>H(p) 2-18</b>
Draught Tubes. Efficiency of regain in straight and bent —. Engapaper No. 34. 1926. A. H. Gibson and S. Labrow. H(m)-1J-34
Engines—
and Boiler testing. Indicator diagrams and 2nd edition 1897. Charles Day.  B(b) 3
Balancing of —. 4th edition, 1929. W. E. Dalby. B(b) 4
Heat — . Testing of — . Institution of Civil Engineers. Lecture to students by H. B. J. Burstall. 1927. <b>H(m) 1E-</b>
Heat — trials. Report on tabulating the results of — with appendices, 1927.  B(b) 5
Reciprocating —. Cylinder performances of —. A new analysi of. University of Illinois Bulletin No. 58. 1912. J. P. Clayton
V(a) 1-26
Steam —. Treatise on the —. Indicator and development and application of force in the —. 1894. Charles T. Porter B(b) 6
Evaporation by the vapour compression method. Engg. paper No. 7 1923. T. E. Houghton. H(m) 1J-7
Furnaces
Tile roof — under a water tube boiler. Tests of two types of University of Illinois bulletin No. 34, 1909. J. M. Snodgrass V(a) 1-6
Warm air — and heating systems. Investigation of. University of Illinois Bulletin No. 141. 1924. Part II. A. C. Willard

A. P. Kratz and V. S. Day.

V(a) 1-75.

Fusion Welded Pressure Vessels. Report on —— by the British Engine
Boiler and Electrical Insurance Coy. 1928.

B(b) 24.

Heat Transmission. A study in —— the transmission of heat to water in tubes as affected by the velocity of the water. University of Illinois Bulletin No. 40. 1909. V(a) 1-9.

### SECTION B(b).-LOCOMOTIVES, BOILERS AND ENGINES-contd.

Locomotives-

Coy.

Abt. System of —— for steep inclines. Engg. paper on —— by W. W. Evans. (American Society of Mechanical Engineers Transactions). 1886. H(p) 1-2a.
Articulated — 1930. L. Wiener. B(b) 7.
Boiler. A study of —
Brake equipment. Instruction pamphlet No. 5032. 1917. Westinghouse Air Brake Co. B(b) 8.
Bridge and — oscillation. Lecture on —. 1930. W. E. Dalby. H(m) 1E-6.
British — their history, construction and modern development. 1893. C. J. B. Cooke. B(b) 23.
Building. A Century of, 1823 to 1923. 1923. J. G. Warren. B(b) 10.
Bureau of — Inspection. Interstate Commerce Commission Annual Reports for 1924 and 1925. H(d) 8-3.
Consolidation — Laboratory tests of a. University of Illinois Bulletin No. 82, 1915. E. C. Schmidt, J. M. Snodgrass and R. B. Keller. V(a) 1-38.
Construction. Rules for the — of boilers. Boiler Construction Code. 1926. A. S. M. E. H(p) 2-1a.
Cyclopedia of American practice. 1922, 1925 and 1930. R. V. Wright. E(d) 14-1.
Electric — and Railroad electrification. 1925. A. J. Manson. C(t) 2.
Eelectric —. A method of classifying, analysing and comparing their characteristics. Execupt Minutes of Pros. of Mech. Engrs. 1926. T. A. F. Stone. H(m) 5A-1.
Engineers and Firemen. Duties and responsibilities of. Vol. XII of the Science of Railways. M. M. Kirkman. 1902.
Engineers' Pocket Book. 1928.   E(a) 18-12.   E(d) 14-2.
Engines. A manual of —— containing practical and theoretical information. 1885. D. P. J. Reierson. B(b) 11.
Engines. Principles and practice and explanation of the machinery of. (Tredgold on the Steam engine.) 1850. J. Wealc.  B(b) 12.
Frames. Stresses in. Engg. paper by A. S. M. E. 1922. R. Eksergian. H(p) 2-2a.

Mallet articulated compound —. Instruction pamphlet by the Educational Bureau of information. Union Pacific Railroad

Y(a) 8-1.

#### SECTION B(b).—LOCOMOTIVES, BOILERS AND ENGINES—contd.

#### Loca

A'hearn.

Locomotives—contd.
Mallet type —. If and ling of. Instruction pamphlet No. 2 by the Educational Bureau of information. Union Pacific Railroad Coy. Y(a) 8-2.
Modern — 1912. C. E. Allen. B(b) 13.
Of to-day. Reprinted, with revisions and additions, from "Locomotive Magazine". 4th edition. 1906. B(b) 14.
Operation and train control. Principles of, 1915. A. J. Wood. B(b) 15.
Practical operating. 1913. C. Roberts and R. M. Smith. B(b) 16.
Practice. Some recent development in. 1902. C. J. B. Cooke.  B(b) 17.
Railway ——. 1908. V. Pendred. B(b) 19.
Rating —. 1912. II. L. Cole. B(b) 20.
Resistance of — and trains and the water and coal consumption and power of — determined experimentally. 1900. A. Frank. 8(c) 10-2.
Running of — with reference to their tendency to derail. Engg. paper No. 91. 1930. F. W. Carter. H(m) 1J-91. Running shed management. A manual of. 1925. W. Paterson and H. Webster. B(b) 21.
Standard —— for Indian Railways as designed by the Engineering Standards Committee of Great Britain. L. & C. Supdts.' Committee Report on ——. H(c) 16.
Standardization of —— in India. 1910. Excerpt minutes of Pros. of M. Es. C. Hitchcock. H(m) 5A-2.
Standards Committee. Minutes of meetings of the. H(c) 16-1.
Works. Reorganisation of Crew — London, Midland and Scottish Railway. 1929.
Machine Shops. Locomotive Fundamental of. 1926. F. M.

Master Boiler Makers' Association. Proceedings of - for 1925, 1927, 1928 and 1930. H(a) 16. Motive Power Engines. Testing of ---. (Steam engines, locomotives,

F(c) 3.

boilers, etc., etc.). 1902. R. Royds. E(f) 11. Shoes and Wedges. Laying out --- in locomotive frames. Instruction paper by the Railway Educational Bureau. Y(a) 8L-4.

#### SECTION B(b):-LOCOMOTIVES, BOILERS AND ENGINES—concid.

#### Steam-

- Boiler Explosions. Prevention and economy in the application of steam. Memorandum by the Manchester Steam Users' Association. 1921 and 1922.

  H(a) 15.
- in Locomotive Service. Superheated —. University of Illinois Bulletin No. 57. 1912. W. F. M. Goss. V(a) 1-25.
- Tables and Diagrams. Mollier —. 1927. R. Mollier. B(b) 2.
- Tables. Properties of saturated and superheated ——. 1927. .
  Superheater Company. N. Y. Q 11-4.
- Turbines. Hydraulic of francis mixed flow and propeller types. A method of obtaining the leading dimensions and of setting out the blade forms for Engg. paper No. 48. 1927. H. Mawson.

H(m) 1J-48.

## SECTION C(a).—ELECTRICAL APPARATUS APPLIED FOR SPECIAL PURPOSE.

Electric Batteries. How to make and use them. P. Marshall & Co.

C(a) 1.

Lighting Conductors. Erection and testing of ——. Code of instructions. 1904.

Code of instructions. J(c) 6.



### SECTION C(b).—ELECTRICAL INSTRUMENTS.

Induction Coils for Electric Amateurs. How to make and use them. P. Marshall & Co. C(b) 1.



#### SECTION C(c).—ELECTRIC MOTOR AND SWITCHGEAR.

Alternating Current Electric motor and circuit. 1905. W. P. Maycock. C(c) 1.

#### Convertors-

- Motor versus rotary in power and lighting stations. Engg. paper No. 73. 1929. E. B. S. Powell. **H(m)** 1J-73.
- Rotary for railway use. Engg. paper No. 22. 1924. R. W. Mountain. H(m) 1J-22.
- Dynamics. Electro ——. The direct current motor. 1898. C. A. Carus Wilson. C(c) 2

#### Motors-

- Electric and its applications. 4th edition. 1895. T. C. Martin and J. Wetzler. O(c) 3.
- Electro ——. How to make and use them. 1901. S. R. Bottone C(c) 4.
- Single phase series. Analytical determination of the voltage steps in the starter of a ——. Engg. paper No. 11. 1923. S. P. Smith and M. G. Say. H(m) 1J-11.
- Transformers. Starting currents of with special reference to with Silicon steel cores. University of Illinois Bulletin No. 55. 1912. T. D. Yensen. V(a) 1-23.

सम्बन्धि ज्ञान

## SECTION C(d).—ELECTRIC POWER GENERATION AND TRANSMISSION.

Accumulators. The management of electric ——. 9th Edn. 1906. Sir D. Salomons. C(d) 1.
Batteries. Modern primary electric — their construction use and maintenance. 1905. N. H. Schneider. C(d) 2.
Catenary Measurements. Engg. paper No. 9. 1923. R. Appleyard. H(m) 1J-9.
Dynamo. Electric — how to make a —. A practical treatise for Amateurs. 7th edition. 1914. A. Crofts. C(d) 3.
Electric Power in British Isles. Development of the generation and distribution of. Lecture on. 1929. Institution of Civil Engineers.  A. Page.  H(m) 1E-2.
Electric Supply in Great Britain. The National Scheme ——. Paper read by C. H. Merz before the British Association for the advancement of Science, South Africa. 1929. C(d) 12.
Hydro-Electric Installations—
Back water suppressor as applied to a —. An investigation of. Engg. paper No. 92. 1930. A. H. Gibson. H(m) 1J-92.
— of India. 1922. Shiv Narain. C(d) 7.
Surge chamber in —. Method of calculation of. Engg. paper No. 55. 1927. R. S. Cole. H(m) 1J-55.
Hydro-Electric Power—
Vol. II—Electrical equipment and transmission. 1906. L. Lyndon. C(d) 5.
Vol. I—Hydraulic development and equipment. 1906. L. Lyndon. C(d) 4.
in India. A lecture delivered before the E. I. Association in 1922. A. T. Arnall. C(d) 6.
Light-Fittings. Electric —. A handbook for working electrical engineers embodying practical notes on installation management. 1904. J. W. Urquhart. C(d) 10.
Lighting. Electric—
—— and power distribution. Vols. I and II. 1904. W. P. Maycock. C(d) 8-1 & C(d) 8-2.
its production and use, embodying plain directions for treatment of Dynamo electric machines, batteries accumulators and electric lamps. 1902. J. W. Urquhart. C(d) 9.
of streets. University of Illinois Bulletin No. 51. 1911. J. M. Byrant. V(a) 1-19.

Polyphase electric currents and alternative current —. 2nd edition. 1900. S. P. Thompson. C(d) 11.

Motors-

### SECTION C (d).—ELECTRIC POWER GENERATION AND TRANS-MISSION—coneld.

Transmission Lines—
Graphical calculation of overhead electric power ——. Engg. paper No. 13. 1924. W. T. Taylor. H(m) 1J-13
High tension —. A series of papers and discussions presented a the American Institute of Electrical Engineers under the auspices of the Committee on —. 1905. C(d) 14
Mechanical design of overhead electrical ——. 1925. Painton. C(d) 13
Mechanical stresses in ——. University of Illinois Bulletin No. 54 1912. A. Guell. V(a) 1-22.
Wiring—
for Lighting Installations. Practical electric —. 1905. C. C. Metcalfe. C(d) 15
— of Buildings. The internal — 2nd Edn. 1903. H. M. Leaf. C(d) 16.
— tables. Electric — 1903. W. P. Maycock. E(d) 11-7

REALE ENG

#### SECTION C(e).-ELECTRICAL TECHNOLOGY.

Circuits. Polyphase —. Method of symmetrical co-ordinates in the theory of —. Engg. paper No. 40. 1926. B. Hague.

H(m) 1J-40.

- Coils. Inductance of ——. University of Illinois Bulletin No. 53. 1912. M. Brooks. V(a) 1-21.
- Dynamo Electric Machinery. A manual for students of Electrotechnics. 1896. S. P. Thompson. C(e) 1.
- Electricity and Magnetism. Practical ——. Physical and Electrical Engineering Laboratory Manual, Vol. II. 1898. J. Henderson. O(e) 2.
- Electricity in the Service of Man. A popular and practical treatise on application of electricity in modern life. 1904. R. M. Walmsley. O(e) 3.
- Magnetism. Electron Theory of —. University of Illinois Bulletin No. 62. 1912. E. H. Williams. V(a) 1-29.
- Tungsten Lamps. Tests of University of Illinois Bulletin No. 33. 1909. T. H. Amrine and A. Guell. V(a) 1-5.

COLUE D

### SECTION C(f).—ELECTRIC TRACTION.

Calcutta Tube and Suburban Electric Railways. The scope for —. Paper read before the Institute of Engineers (India) by T. A. F. Stone.
H(m) 3-3 Electrification—
Great Britain, Main line Railway. Report of the Committee on ——————————————————————————————————
G. I. P. Railway Main Line. Inauguration of the 1929.
C(f) 1
Railroad —— and the Electric Locomotive. 1925. A. J. Manson O(f) 2
Railway —. 1924. H. F. Trewman. (A complete survey of the economics of the different systems of railway electrification from the Engineering and Financial points of view.) C(f) 3.
Railways. 1920. H. F. Trewman. (Describing the systems and equipment of electrical traction; comparing steam and electric traction; and surveying the possibilities of electric traction in relation to the economical production of electricity.) <b>C(f)</b> 4.
Sydney and Suburban Railways, New South Wales Government Railways and Tramways. 1927. (Papers presented before the Institute of Engineers, Australia, Sydney.) C(f) 5.
Electrified Lines—
Lancashire and Yorkshire Railway. Instructions to the staff employed on —. 1915 and 1919 (2 Vols.). C(f) 6-1 & C(f) 6-2.
London and South Western Railway. Instructions applicable to the —
Southern Railways. Instruction to Motormen. 1925. C(f) 8.
Electric Railways and Tramways—
A practical handbook on construction and operation. 1897. P. Dawson. C(f) 9.
The management of ——. 1904. W. R. Bowker. O(f) 10. Electric Traction—
and transmission engineering. 1920. Sheldon and Hausmann. O(f) 11.
Lecture on —. 1902. J. W. Meares. C(f) 14.  on Buenos Ayres Western Railway, South America. 1923.  O(f) 12.
on Great Western, Metropolitan and West London Railways. Rules and Regulations for staff on 1913. C(f) 13.
on Italian Railways. Excerpt Minutes of Pros. of Electrical

### SECTION C(f).-ELECTRIC TRACTION-coneld.

Electric Traction—concld.	
on Melbourne Suburban System, Victorian Govt. R.	lys. <b>C(f) 15.</b>
— on Railways. 1902. F. W. Carter.	O(f) 16.
on Railways. 1909. P. Dawson.	C(f) 17.
- on South African Railways. Report on the - 19	919. <b>C(f) 18.</b> .
Traite partique de ——. 1903 & 1904. Barbilion. 2 volu  C(f) 19-1 & 6	
Treatise on the application of electric power to electric on Railways and tramways. 1928. A. T. Dover.	traction C(f) 20.
Electric Trains. 1927. R. E. Dickinson.	C(f) 21.



### SECTION C(g).—ELECTRIC TRAIN LIGHTING.

#### Electric Lighting-

Crawford system of Electrical supply for railway carriages. Instructions by Bombay Electric Co. 1909. O(g) 1.

— of trains. The T. A. C. System of —.

C(g) 2.



#### SECTION D.—ROLLING STOCK.

Capacity of Railway Wagons as affecting cost of transport. Excerpt Minutes of Pros. of C. Es. 1900. J. D. Twinberrow. H(m) 5 A.

Dictionary. An illustrated vocabulary of terms which designate American Railroad cars and their parts attachments and details

E(d) 4-1.

E(d) 4-2.

Cyclopedia. 1922. and 1931. R. V. Wright.

of construction. 1895. J. C. Wait.

Carbuilders'-

Carriage & Wagons-

Railway — their design and construction. Part I. Sidney Stone. D.1.
Standards Committee. Reports of the — H(c) 31.
Carriages. Cooling Railway Description of two forms of appa-
ratus for. 1872. <b>D-2.</b>
Oar Wheels—
Chilled iron —. Investigation of the properties of the —.
Part I—wheel fit and static load strains. University of Illinois Bulletin No. 129. 1922. J. M. Snodgrass and F. H. Guldner.
V(a) 1-64,
Chilled Iron —. An investigation of the properties of — wheel
fit, static load, and flange pressure strains ultimate strength of
flange. University of Illinois Bulletin No. 134. 1922. J. M.
Snodgrass and F. H. Guldner. V(a) 1-69. Chilled Iron. An investigation of — Part III—Strains due to
Chilled Iron. An investigation of — Part III—Strains due to
brake application coefficient of friction and brake shoe wear.
University of Illinois Bulletin No. 135. 1923. J. M. Snodgrass and F. H. Guldner. V(a) 1-70.
Indian Broad Gauge Railway Rolling Stock. H. Kelway-Bamber. D-3.
Master Car Builders Association. Proceedings of the —— from 1867-
1872, 1874-75, 1877-1900, 1903, 1905, 1907 and 1908. <b>H(a) 17</b> .
Railway Carriage Building. Indigenous timbers of India, Burma and
the Andamans considered suitable for ——. 1925. H. G. N. White. L 14-8.
Rails in Curves. Wear of —— and wheel flanges and mechanical contrivances to diminish it. 1900. R. Helmholtz. D-4.
Self-Propelled units on Railways in Great Britain and on the continent
of Europe. Report on the —. 1928. H. H. Spalding and J. A.
Bell. <b>D.5</b> .
Springs. Laminated —. Calculations, design and manufacture of —. 1923. T. H. Sanders. E(f) 20.
Standards Coded List issued by the B. E. Standards Committee Vol. IV-
Materials for construction of Rolling Stock. H(c) 13-c.
Trucks—
Car and draft gear maintenance. 1925. E. W. Hartough. D-6.
- on Curves. Static adjustment of - A. S. M. E. Engg.
paper. 1920. H(p) 2-2b.

### SECTION D.—ROLLING STOCK—concld.

Vacuum Brake. Automatic — with a note on slipping carriages. 1921. Loco. Publishing Co., London. D-7.
Wagons for the Carriage of Perishable Foods. Food Investigation Board on the design of ——. 1919. H(b) 1-5.
Wheel(s)—
and Axle Manual. Proposed by the American Railway Association, Mechanical Division. 1928. <b>H(a) 3-1d.</b>
—— Defect Gage. Instruction paper by the Railway Educational Bureau. Y(a) 8L-6.
flanges and Rails in Curves. Wear of —— and the mechanical contrivances to diminish it. 1900. R. Helmholtz. D.4.
How to Locate Defective ——. Instruction paper by the Railway Educational Bureau. Y(a) 8L-5.
Springs and Suspensions, 1930. T. H. Sanders. D-8.

# SECTION E(a).—BRIDGES, ROOFS, STEEL STRUCTURES AND COLUMNS.

Aqueduct. Swing. Raising of Barton — and the renewal of paths and rollers. Engg. Paper No. 67. 1929. R. D. Brown.
H(m) 1J-67.
Arches, Masonry. Philosophy of ——. Engg. Paper No. 56. 1927. E. O. Williams. H(m) 1J-56.
Beams. Skelton Handbook No. 18 of ——. (Broad flange, grey process), 1923. R. A. Skelton. & Co. J(m) 9.
Bridges—
Arches, masonary —. Scientific Design of — with numerous examples. 1927. T. Alexander and A. W. Thomson. E(a) 7.
Arches. Stability of —. 1926. E. H. Sprague. E(a) 8.
Baigul (Shahjahanpur District) Design of reinforced concrete bridge of six spans of 65 feet. 1922. L. B. Gilbert. E(c) 14.
Construction. A practical treatise on — being a text book on the design and construction of bridges in iron and steel. 2nd edition, 1893. T. C. Fidler.
Construction and Design. Economy in the——. A series of six lectures delivered to the students of the Sibpur Engineering College during March 1914. H. W. Joyee. E(a) 10.
Crawford —, Singapore. Reconstruction of. Engg. Paper No. 86. 1929. T. C. Hood. H(m) 1J-86.
De Pontibus. A pocket book for Engineers. 1900. J. A. L. Waddell. E(d) 8.
Dufferin. Description of — R. & K. Railway at Benares.  1880 E(a) 11.  1887 E(a) 12.
Engineering. 1916 in 2 volumes. J. A. L. Waddell. E(a) 1.
Foundations for ——. 1916. W. Burnside. E(b) 12.
Foundations of —— and buildings. 1914. H. S. Jacoby and R. P. Davis. E(a) 13.
Foundations of modern depth. Engg. Paper No. 15. 1924. C. J. Gyde. H(m) 1J-15.
German — building. A hundred years of. 1900. G. C. Mchrtens. E(a) 14.
Hardinge —— over the Lower Ganges at Sara. A Description of the ——. 1915. E(a) 15.
Hugly — E. I. R. Description of ——. 1887. <b>E(a) 16</b> .
Impact coefficients for railway —. Excerpt Minutes of Pros. of C. Es. 1916. C. W. Anderson. H(m) 1D-2a.
Impact in Railway — with particular reference to the report of the Bridge Stress Committee. Excerpt Minutes of Pros. of C. Es. 1929. C. Gribble.   H(m) 1D-2

## SECTION E(a).—BRIDGES, ROOFS, STEEL STRUCTURES AND COLUMNS—contd.

Bridges-contd.

Impact test on Railway —. American Railway Engineering and Maintenance of Way Association Bulletin No. 125. 1910.
H(a) 4.
Inchinnan opening —. Engg. Paper No. 8. 1923. W. B. Hall and H. H. Jeffeott. H(m) 1J-8.
Indian. Memorandum of construction and cost of certain selected building and ——. Selections from P. W. D. Records. 1911.  E(d) 7-2.
Kosi River, Almora District. Design of a reinforced concrete—of 100 feet span. 1922. L. B. Gilbert. <b>E(c) 13</b> .
Lansdown — Description of the N. W. R. Bridge over the Indus at Sukkur. 1889.
Lower Ganges — at Sara. Notes on the —. Bombay Govt. Tech. Paper No. 3 of 1915. D. R. H. Browne.    V(b) 1-1.  Lower Ganges —. Report and estimate for the — and an approximate estimate of the cost of connecting the Bridge with
Neighbouring Railways. 1904. F. J. E. Spring. E(a) 18  Lower Ganges. Report of the Engineering Committee on a
1908. <b>E(a) 19.</b> Movable—. Vol I—Superstructure. 1926. O. E. Hovey. <b>E(a) 20.</b>
Movable and Long-span steel—. 1923. G. A. Hool and W. S. Kinnee. E(a) 21.
Nerbudda River—at Broach. Selection of correspondence and notes regarding the B. & C. I. Railway—. 1898-1899.
E(a) 22.
Oblique —— in stone and brick. A theoretical and practical treatise on. 1901. F. Campin. E(a) 24.
Panjeli Nadi on the Bareilly Pilibhit Road. Design for the reinforced concrete bridge over the ——, 1917. C. E., U. P. Government. E(a) 25.
Plate Girder —. Practical Design of. 1920. J. H. Bird. E(a) 26.
Principal N. W. R. —. Cost of maintenance and training works of —. 1903. E(a) 23.
Queensferry — Engg. Paper No. 89. 1930. H. F. Molony. H(m) 1J-89.
Reinforced concrete —. Practical design of modern — including notes on temperature and shrinkage effects. 1928. W. L. Scott and G. W. J. Spicer. E(a) 27.
Safe working stress. Investigation of —— in old bridges by the use of Frankel's Extensometer. II. S. Sales. E(a) 28.
Safe working stresses. Determination of —. E. H. Stone. E(a) 29.

# SECTION E(a).—BRIDGES, ROOFS, STEEL STRUCTURES AND COLUMNS—contd.

Bridges—contd.
Scarborough Valley — reconstruction. Engg. Paper No. 76. 1929. R. D. Gwyther. H(m) 1J-76.
Scherzer Rolling Lift — Their Inception, development and use. Scherzer Rolling Lift Bridge Coy. <b>E(a)</b> 30
Shrewsbury. Reconstruction of the English—over the Severn River at Shrewsbury. Engg. Paper No. 66, 1928. A. W. Ward. H(m) 1J-66
Sone —— at Dehri, E. I. R. General Account of the ——. 1900. E(a) 31
Standards Committee. Reports of the H(c) 4-1.
Steel Specifications for 1900. (Taken from "de
Pontibus ''.) J. A. L. Waddell, E(a) 32.
Steel Arch. — neross the Reond Nullah, Kangra Valley Railway.
Adjustments for temperature camber and deflection, and pro-
cedure for setting out during erection of the . Engg. Paper No. 82. 1929. W. E. Gelson. H(m) 1J-82.
Stress Committee. Report of the —. 1928. H(c) 4.
Suspension — and Arches. Theory of. 1913. J. Melan.
E(a) 33.
Suspension — Deflections of Engg. Paper No. 1. 1923. J. W. Spiller. H(m) 1J-1
Swing "Loidis". <b>E(a) 34</b>
Swing — over the Weaver navigation, with some information about other movable —. Engg. Paper No. 79. 1929. J. A Saner. H(m) 1J-79
Sydney Harbour. Report on designs and tenders submitted in connection with the proposed——to connect Sydney with North Sydney. Plans. 1903. Sydney harbour Bridge Advisory Board.  E(a) 35.
Vibrations and Oscillations of — . D. H. Remfry. E(a) 36
Wooden trestle
E(a) 37
Bridges and Culverts. Tables of quantities for small span —— adapted to the conditions of railways in India on the Broad and Metro Gauges. E. H. Stone. 1892. E(a) 4
Bridges and Roofs. Graphic states. A text back on ——Part II 1917. Herringa and Jacoby. ——E(a) 5
Bridges and Viaduets. General specifications for 1901. Theodore Cooper. E(2) 6
Bridgework—
Anatomy of 1914. W. H. Therpe. E(a) 2.
Economics of —. 1921. J. A. i. Waddell. E(a) 3.

Columns---

## SECTION E(a).—BRIDGES, ROOFS, STEEL STRUCTURES AND COLUMNS—contd.

- and Beams. Study of base and bearing plates for —. University of Illinois Bulletin No. 35. 1909. N. C. Ricker.

Design and compression members. A treatise on the strength and

V(a) 1-7.

—. 1921. E. II. Salmon.	E(a) 38.
under Load. Investigation of built up—— Illinois Bulletin No. 44. 1910. A. N. Talbot.	University of V(a) 1-13.
Culvert (iron) Load Determination. Reprint from Bulle 1926 of the American Railway Engineering Association	tin No. 284 ox
Elastic Structures. Principle of virtual velocities and its the theory of ——. Engg. Paper No. 10. 1923. E.	11. Lamb. H(m) 1J-10.
Frames of Office Buildings. Wind stresses in the steel—of Illinois Bulletins No. 80. 1915. W. M. Wilson and	—. University 1 G. A. Maney. V(a) 1-38,
Girders—	
<ul> <li>(1) Standard types of — 6 feet to 80 feet elear sp</li> <li>(2) Selected types of — of 100 feet and 150 feet elea</li> </ul>	r spans. 1908. E(a) 39.
— and I beams. Strength of webs of —. Universelletin No. 86. 1916. H. F. Moore and W. I	rsity of Illinois M. Wilson. V(a) 1-42
Transverse oscillation in ——. Engg. Paper No. 23.  Howland.  Joints. Rivetted—	1924. R. C. J. H(m) 1J-23
Large size —— further experiments on. 1924. J. M	ontgomerie. E(a) 40.
Report on experiments on ——. 1920. J. Montgome Abell.	E(a) 41.
Piers and Abutments, Foundations and Footings. 192 and W. S. Kinne.	<b>E</b> (b) <b>2</b> .
Ribs. Thin Brick Arch. E. W. Stoney on experiments of ——. (From transactions of the Inst. of C. Es.)	Vol. XLIII H(m) 1M-1.
Roofs. Brick Arch. E. W. Stoney on ——. 1917. (Fro of the Inst. of C. Es.).	H(m) 1M.
Ropes. Stay —. Length, tension and sag of —. En 19. 1924. T. Walmsley.	ngg. Paper No. H(m) 1J-19.
Steel under Biaxial Loading. Strength and stiffness of sity of Illinois Bulletin No. 85. 1916. A. J. Beeker.	——. Univer- V(a) 1-41.
Structural Elements. Strength of —. 1917. E. H.	Sprague.
·	E(a) 42.

## SECTION E(a).—BRIDGES, ROOFS, STEEL STRUCTURES AND COLUMNS—concld.

Structural Engineers' Handbook. Arrols Bridge and —. 1928. A. Hunter. E(d) 2.
Structural Members and connections. 1923. G. A. Hool and W. S. Kinne.
Structures—
Beams, columns and arches. Strength of —. 1870. B. Baker. E(a) 44.
Construction. Engineering —— in iron, steel, and timber. 1894. W. II. Warren. <b>E(a) 54.</b>
Framed —. Stresses in —. 1923. G. A. Hool and W. S. Kinne.
Design. 1911. J. B. Johnson, F. E. Turneaure and C. W. Bryan.
Statistically indeterminate structures and secondary stresses. 1911. J. B. Johnson, F. E. Turneaure and C. W. Bryan. E(a) 47.
Stresses in simple structure. 1911. J. B. Johnson C. W. Bryan and F. E. Turneaure. E(a) 48.
Steel —. A review of current practice in the application of structural steel work to buildings and bridges. 1927. E. F. Etchells. <b>E(a)</b> 55.
Steel and Iron
Arches of masonry and of metal for bridges, roofs, etc.; tunnels, culverts, conduits and sewers; domes; suspension bridges, etc. Exercises in graphic statics with examples of its application to the designing of ———. Part III. G. F. Charnock.  E(a) 49.
Beams and girders. Exercises in graphic statics with examples of its application to practical designing of constructional steel work. Part 2. G. F. Charnock.  E(a) 50.
Roof trusses, braced cautilevers, cranes and jibs, etc. Exercises in graphic statics with examples of its application to practical designing of ——. G. F. Charnock. <b>E(a) 51.</b>
Steel and timber —, 1923, G. A. Hool and W. S. Kinne. E(a) 53.
Steel frame —. Calculations for, 1917. W. C. Cocking.

Struts. Strength of - Engg. Paper No. 28. 1925. A. Robertson.

L283RB

H(m) 1J-28.

E 2

## SECTION E(b).—BUILDINGS (MASONRY) RETAINING WALLS AND FOUNDATIONS.

Arches. Masonry —
Architecture—
—— and Architectural decoration. Volute in —— University of Illinois Bulletin No. 121. 1921. R. Newcomb. <b>V(a) 1-56.</b>
The substance of ——. 1926. A. S. G. Butler and E. Lutyens. E(b) 1.
Abutments. Foundations, footings and —. 1923. H. A. Hool and W. S. Kinue. E(b) 2.
Bricks. Sand-lime and other concrete —. Special Report No. 1. 1921. H. W. Weller. Building Research Board. H(b) 1-2.
Brickwork. Reinforced —. Notes on. Vol. I—Notes and Vol. II—illustrations, tables, etc. Govt. of India Technical Paper No. 38. 1923. A. Brebner. V(b)2-2.
Bridge and Structural Engineers' Handbook. Arrols' ——. 1928. A. Hunter. E(d) 2.
Bridges and Buildings. Foundations of. 1914. H. S. Jacoby and R. P. Davis.
Bins, Walls and Grain elevators. The design of ——. 1907. M. S. Ketchum. E(b) 20.
Buildings—
Clay modelling and plaster easting. P. N. Hasluck. E(b) 3.
Construction—
Engineering —. Part II—Masonry and concrete. 1921. W. H. Warren. E(b) 4.
Memorandum of —— and cost of certain selected —— and bridges in India. (Selections from P. W. D. Records). 1911. <b>E(d) 7-2.</b>
Notes on —, Part IV. Calculations for building structures.  1912. Longman Green and Co. E(b) 5.
Notes on ——. Part III—Materials. 1910. Longman, Green & Co. E(b) 6.
Practical 1909. J. P. Allen. E(b) 7.
Rivingtons notes on ——. 1915. Parts I and II. W. N. Twelvetrees. E(b) 8.
Treaties on ——. 1920. I. O. Baker. <b>E(b)</b> 10.
Development of heating of —— and the advantages and dis- advantages of various heating systems. Engg. Paper No. 84 1929. A. J. P. Pashler. H(m) 1J-84
Roorkee treatise on Civil Engineering—
Vol. I.—Building materials. \ \ \text{Vol. II.}—Buildings. \ \ \ \ \text{E(d) 5-5}
Stability of —— and other structures subject to the pressure of

## SECTON E(b).—BUILDINGS (MASONRY) RETAINING WALLS AND FOUNDATIONS—contd.

Dams at Grimsby. Interlocking steel sheet piling for temporary——. Engg. Paper No. 25. 1925. J. W. McLaren. H(m) 1J-25.
Earth Pressures. Theory of —. Engg. Paper No. 58. 1928. A. C. Vivian. H(m) 1J-58.
Foundations— Abutments, and footings. 1923. G. A. Hool and W. S. Kinne.
E(b) 2.
Allowable pressure on deep —. 1907. E. L. Corthell. E(b) 11. Bridge —. 1916. W. Burnside. E(b) 12.
Design of road slabs and ——. Engg. Paper No. 85. 1929. 4. L. Goulden. H(m) 1J-85.
Lock — Construction of — by the gravity methods. Engg. Paper No. 57. 1928. G. Parker. H(m) 1J-57.
Methods and appliances. 1928. W. Simpson. E(b) 13.
Practical treatise on — explaining fully the principles involved. 1898. W. M. Patton. E(b) 14.
Grain Elevators. Bins and Walls. The design of —. 1907. M. S. Ketchum. E(b) 20.
Partitions. Sound proof.— University of Illinois Bulletin No. 127. 1922. F. R. Watson. V(a) 1-62.
Pile Formulas. Engg. Paper No. 62. 1928. J. H. Nicholson.
H(m) 1J-62.
Piles. Design of ——. Eugg. Paper No. 78. 1929. G. B. R. P mm. H(m) 1J-78.
Piling. Serew — jetty at Bhavnagar. Construction of. Engg. Paper No. 95. 1930. D. Kennedy. H(m) 1J-95.
Retaining Walls—
Dock walls, Masoury Dams, Towers, Chimneys, Piers, etc. Exercises in Graphic Statics with examples of its application to the design of structures. G. F. Charnock.
for earth including the theory of earth pressure as developed from the cllipse of stress. 1899. M. A. Howe. <b>E(b)</b> 16.
on the experiments carried out during 1924-26 at the Thomeson Civil Engg. College, Roorkee. 1927. Raja Ram. <b>E(b) 17</b> .
Road Construction in Bombay. Bituminous —. Engg. Paper No 87. 1929. T. R. S. Kynnersley. H(m) 1J-87.
Shoring—
and its application. 1887. G. H. Blagrove. E(b) 19.
——and Underpinning. A treatise on ——generally dealing with Ruinous and Dangerous structures. 1893. C. II. Stock.
E(b) 18.

### SECTON E(b).—BUILDINGS (MASONRY) RETAINING WALLS AND FOUNDATIONS—concld.

#### Structures in Sea Water-

Deterioration of -----

Timber, metal and concrete. Report of Committee of the C. Es. 1920. P. M. Crosthwaite and G. R. Redgrave.

H(m) 1C.

Work of the Committee of the Institution of the C. Es. 1930. S. M. Dixon. **H(m) 1E-9.** 

Walls, Bins and Grain Elevators. The design of —. 1907. M. S. Ketchum. E(b) 20.



### SECTION E(c).—CEMENT, PLAIN AND REINFORCED CONCRETE.

Cement—
Lime and —. A manual on —— their treatment and use in construction. 1893. A. H. Heath. <b>E(c)</b> 1
Mortars; relation of same grading, water absorption and compressive strength. Engg. Paper No. 21, 1924. II, S. Smith and C. D. Crosthwaite.  H(m) 1J-21
Portland
——in the U. P. Possibilities of manufacturing, 1923. Industries and Labour Bulletin No. 30. E. R. Watson and K. C. Mukerjee. V(a) 2-25
— of Indian Manufacture. Report on, 1927. N. Brodie. E(c) 2
Strength of —. Experiments on the — chiefly in reference to the Portland cement used in the construction of Southern Main Drainage Works. 1875. J. Grant. E(c) 3
Columns. Tests of —. An investigation of the value of concrete as reinforcement for structural steel —. University of Illinois Bulletin No. 56. 1912. A. N. Talbot. V(a) 1-24
Concrete—
Armoured — works and irrigation. Inspection notes on certain — in Europe. 1906. A. R. de Chazal. E(c) 4
Arches.
Reinforced —. Notes and calculations for the design of a 50 feet solid spandril —. 1922. L. B. Gilbert. E(c) 5
Testing—and reinforced—. A report on the. 1909. II. F. Beale.  E(c) 6.
Cooling of fresh—in freezing weather. Studies on—. University of Illinois Bulletin No. 123, 1921. T. Yoshida.  V(a) 1-58.
Construction, methods and costs. 1908. II. P. Gillette and C. S. Hill.
Formwork for — structures. Design and construction of. A. E. Wynn.
Permeability of Engg. Paper No. 20. 1924. H. C. Toy. H(m) 1J-20.
Plain and reinforced — Effect of moisture contents upon the expansion and contraction of University of Illinois Bulleting No. 126. 1921. T. Matsumoto. V(a) 1-61.
Reinforced
and masonry structures. 1924. G. S. Hool and W. S. Kinne. E(c) 9.
and plain —. A treatise on — materials, construction, and design of concrete and reinforced concrete. 1916.  3rd edition. F. W. Taylor and S. E. Thompson. E(c) 10.
Application of Report on the 1906. Major E. Stokes Roberts. E(c) 11.

### SECTION E(c).—CEMENT, PLAIN AND REINFORCED CONCRETE—contd.

Concrete-contd.

Reinforced ----

Beams and columns. The practical design of. 1911. W. N. Twelvetrees.
Bridge. Design of a — of one span of 100 feet over the Kosi River. Almora District. 1922. L. B. Gilbert. <b>E(c)</b> 13
Bridge of six spans of 65 feet over the Baigul Shahjahanpur District. Design of a —. 1922. L. B. Gilbert. E(c) 14.
Buildings under load. Test of — University of Illinois Bulletin No. 64. 1913. A. N. Talbot. V(a) 1-31.
Construction-
Vol. 1.—Fundamental principles including numerous tables and diagrams to facilitate the calculation and design of.
Vol. II.—Retaining walls and buildings.
Vol. III.—Bridges and Culverts.
(1916, 1st edition. G. A. Hool and F. C. Thiessen.).
Principles of — 1909. F. E. Turneaure and E. R. Maurer. E(c) 16
Culvert pipe. Tests of east iron and — University of Illinois Bulletin No. 22. 1908. A. N. Talbot. V(a) 1-2.
Design.—
Vol. I.—Theory \ 1919. 2nd Edn. Oscar Faber and P. G.
Vol. II.—Practice Bowie. E(c) 17
Engineers' Pocketbook. 1909 E. L. Heidenreich. E(d) 6-2.
What slab structures. Test of. University of Illinois Bulletin
No. 84. 1916. A. N. Talbot and W. A. Slater. V(a) 1-40. Joint Committee on. Second Report. Royal Institute of British
Architects. 1911.
Manual of practice. 1908. E. McCullough. E(c) 19
Manual with many new tables and diagrams 3rd edition. 1916. C. F. March and W. Dunn.
Methods of calculation and construction and representative structures. 1906. C. S. Hill.
Practice. A handbook for those engaged upon structural works.  1915. A. A. H. Scott.  E(c) 21
Notes on. R. N. Fram Mirza. E(c) 21-1.
Railway Structures. The Glasgow Text Book. 1913. J. D. W. Ball.
Reservoirs in South Australia. Construction of. Engg. Paper No. 103. H. E. Bellamy. H(m) 1J-103.

### SECTION E(c).—CEMENT, PLAIN AND REINFORCED CONCRETE—concld.

concld.
Concrete—concld.
Reinforced—
Slab. Concentrated loads on a ——. Engg. Paper No. 63- 1928. L. G. Wills. <b>H(m) 1J-63</b> .
Wall footings and column footings. University of Illinois Bulletin No. 67. 1913. A. N. Talbot. V(a) 1-33.
Steel —— construction. Notes on. 1903. Major J. Winn. E(c) 23.
Strength of ——.
Influence of temperature on the University of Illinois

Bulletin No. 81. 1915. A. B. McDaniel. V(a) 1-37

—, its relation to the cement aggregates and water. University of Illinois Bulletin No. 137. 1923. A. N. Talbon and F. E. Richart. V(a) 1-72

V(a) 1-57.

Year Book. 1928. O. Faber and H. L. Childe. **E(d) 6-3.**Gypsum Reinforced. Engg. Paper No. 14. 1924. C. Elliott.

H(m) 1J-14.

सम्बंधि उपते

### SECTION E(d).—ENGINEERING BOOKS OF REFERENCE.

Architects' and Builders Pocket Book. 16th edition. 1916. F. E. Kidder and T. Nolan. E(d) 1.
Bridge and Structural Engineers' Handbook of general specifications, Engineers. H(p) 2-1a.
Bridge and Structural Engineers' Handbook of general specifications, formulæ and data for the design of cranes, bridges, foundations and workshop buildings. Arrol's——. 1928. A. Hunter. E(d) 2.
Building Construction—
Practical —. A handbook for students of Science and Art. 1909.  J. A. Allen.  E(b) 7.
Rivington's Notes on —. Parts I & II. A book of reference for Architects and Builders. 1915. W. N. Twelvetrees. E(b) 8.
Calculus for Engineers. Broadway series of Engineering Handbooks
Vol. XIII. 1914. H. B. Heywood and E. S. Andrews. E(d) 3.
Car Builders—
Cyclopedia of American practice. 1922 and 1931. R. V. Wright. E(d) 41.
Dictionary. 1895. An illustrated vocabulary of terms which
designate American Railroad cars, their parts, attachments and details of construction. J. C. Wait. E(d) 42.
Cars and Trucks adopted by the Association as recommended practice.
Supplement to the Manual including standard 1926. Ameri-
can Railway Association Mechanical Division. H(a) 3-10.
Civil Engineering—
as applied to construction. 1902. L. R. Vernon Harcourt. E(d) 5.1.
Hand book. American. 4th edition. 1925. M. Merriman. E(d) 5.2.
Pocket book. 20th edition. 1922. J. C. Trautwine. E(d) 5-3.
Pocket book. A reference book for Engineers, Contractors and
students containing rules, data, methods, formulæ and tables. 2nd Edn. 1918. A. I. Fryc. E(d) 5-4.
Roorkee Treatise on
Vol. I.—Building materials. 3th and 7th editions, 1899. A. M. Brandreth.
Vol. II.—Buildings. E(d) 5-5.
Vol. II, Section IX—Railways. 1908. F. G. Royal Dawson E(d) 5-6.
Joncrete—
Reinforced.
Engineers' Pocket book. 1909. E. L. Heidenreich. E(d) 6-2.
Manual of. III edition. 1916 with useful information, many
new tables and diagrams. Marsh. and Dunn. E(d) 6-1.

Practice. A handbook on. 1915. A. A. H. Scott. E(c) 21.

E(d) 6.3.

Year Book. 1928. O. Faber and H. L. Childe.

### SECTION E(d).—ENGINEERING BOOKS OF REFERENCE—contd.

Construction—
Materials of as used in India-
Vol. I.—Non-metals.
Vol. II.—Metals, paints, glass and miscellaneous. 1924. N. N. Mitra. E(d) 7-1.
Memorandum of — and cost of certain selected buildings and bridges in India. Selections from records of the Govt. of India, P. W. D. 1911. E(d) 7-2.
Railroad —. Theory and Practice. 7th edition. 1922. W. L. Webb.
De Pontibus. A pocket book for Bridge Engineers. 1900. J. A. L. Waddell. E(d) 8.
Drawing Room Practice. 1921. F. A. Stanley. E(d) 9.
Dynamo Electric Machinery. A manual for students of Electrotechnics. 1896. S. P. Thompson. C(e) 1.
Elasticity. Applied —. 1928. S. Timoshenko and J. M. Lessells. E(d) 10.
Electrical—
and Mechanical Engineering Enquiry. A pocket book for Engineers. 1920. T. Thompson. E(d) 11-1.
——Engineering in India. A practical treatise for Civil, Mechanical and Electrical Engineers with many tables and illustrations. 1914. J. W. Mearcs. E(d) 11-2.
Engineers.  Handbook for. A reference book for practicing engineers and students of engineering. 2nd edition. 1922. H. Pender and W. A. Del Mar.  E(d) 11-3.
Pocket Book. Whittakers' 1903. K. Edgeumbe. E(d) 11-4.
Standard handbook for ——. 5th edition. 1922. F. F. Fowle, E(d) 11-5.
Practical—notes and definitions for the use of Engineering Students and practical men. 2nd edition. 1890. W. P. Maycock. E(d) 11-6.
Wiring tables. 1903. W. P. Maycock. <b>E(d) 11-7.</b>
Engineering—
Economics first principle. 1915. J. C. Lounsbury Fish.  E(d) 12-1.
Field ——.
Handbook of — with useful tables. 1913. G. R. Hearn and A. G. Watson. E(j) 7.
Handbook of Railroad — with several tables, etc. 1900. 2nd edition J. B. Henek. E(j) 8.

Handbook of theory and practice of railway survey, location and construction. 16th edition. 1907. W. H. Searles. E(j) 9.

Engineering—concld.

Sir G. L. Molesworth.

Vol. II.-J to Z and authors index.

Kemp's Engineers' Year Book. (latest).

Vol. I.--A to I.

#### SECTION E(d).—ENGINEERING BOOKS OF REFERENCE—contd.

Formulæ. Molesworth's pocket book of ——. 29th edition. 1926.

Index. 2 volumes. 1928. American Society of Mechl. Engineers-

Index. Vol. III for 1896-1900. H. H. Suplee and J. H. Cuntz.

E(d) 12-2.

E(d) 12-3.

E(d) 12-3a. E(d) 12-4.

Manuals, etc.—
E. B. Railway Manual of instruction for the guidance of Engineers. 1923. E(d) 12-5a.
G. I. P. Railway. Handbook for Engineers. 2nd edition. 1924. E(d) 12-5b.
N. W. Railway. Manual for Engineers. 1922. E(d) 12-5c.
Western Australian Government Railways' instructions to District Engineers. 1923. E(d) 12-5d.
Office Systems and Methods with schedules and instructions for the collection of preliminary data for Engineering projects; sampling, inspecting and testing engineering materials; conducting donestic and export shipping operations; etc. 1st edition. 1915. J. P. Davies.  E(d) 12-7.  Shops and factories. 1912. H. G. Tyrell.  E(d) 12-6.
Structures. Kinetic theory of dealing with stresses, deformations and work for the use of students and practitioners in Civil Engineering. 1911. D. A. Molitor. E(d) 12-8.
Gear Cutting. Tables and formulæ for designing, and practical points in cutting all commercial types of gear. 1922. American Machinist Year Book. C. H. Logue and R. Trutschold. F(d) 9.
Irrigation Pocket Book of facts, figures and formulæ for Irrigation Engineers. 3rd edition. 1920. R. B. Buckley. E(d) 13.
Locomotive-
Cyclopedia of American Practice. 1922, 1925 and 1930. R. V. Wright. Engineers' pocket book. 1928. Loco. Publishing Co., London.
E(d) 14-2.
Hackinery—  Hackinery—  Handbook for machine shop and drafting room. A reference book on machine design and shop practice for the Mechanical Engineer, Draftsman, Toolmaker and Machinist. 6th edition. 1924. Machinery Publishing Co.  E(d) 15-2.  Mechanics of. 1927. C. W. Ham and E. J. Crane.  E(d) 15 3.

### SECTION E(d).—ENGINEERING BOOKS OF REFERENCE—contd.

3rd edition. 1920. F. H. Colvin and F. A. Stanley.	
Maintenance of Way Cyclopedia. 1921. A reference book definitions, descriptions, illustrations and methods of materials, equipment and devices employed in the main tracks, bridges, buildings, water stations, signals and properties of railways published by Simmons Boardman Co.	use of the tenance of other fixed
Material(s)—	<b>-(u)</b> -0.
— handling Cyclopedia. A reference book covering description, illustration and methods of use of materia machines employed in industry. 1921. R. V. Wright Little.	t and J. G. <b>E(d) 17-1</b> .
Burr.	004. W. H. E(d) 17-2.
	E(d) 17-3a. E(d) 17-3b.
Mathematics for Engineers. Elementary—. Broadway ser gineering Handbook, Vol. XXI. 1916. E. H. Sprague.  Mechanical—	ries of En-
Engineering and Machine shop practice. 1908. Stanley	<ul><li>II. Moore.</li><li>E(d) 19-1.</li></ul>
Engineers' Handbook. 1927. W. H. Fowler.	E(d) 19-2.
Engineers' Pocket Book. 1925. D. A. Low.	E(d) 19-3.
World Year Book. 1927. Enumet & Co.	E(d) 19-4.
Municipal Engineering applicable to conditions existing (Six lectures delivered at the Civil Engineering Colle 1899. A. E. Silk).	in Bengal ege Sibpur. <b>E(d) 20</b> .
Permanent Way Pocket Book. 4th edition 1918. T. W. Jones	s. E(d) 21.
Physical and Electrical Engineering Laboratory Manual. Volente Electricity and Magnetism. 1898. J. Flenderson.	l. II-Practi- <b>C(e) 2.</b>
Public Works Calculator. Tables showing at sight the cubic square or round timber stone, etc., also tables of superfice and weight of mild steel bars and angles. 1913. A profficer.	ial measure
Railroad—	
Engineering. Elements of. 1923. W. G. Raymong.	E(d) 23-1.
Structures and Estimates. 1918. J. W. Orrock.	E(d) 23-2.
Railways and Tramways. Electric. A practical handbook of tion and operation. 1897. P. Dawson.	C(f) 9.
Signal Dictionary. 1908. Railway Signal Association.	E(d) 24.
Standard and Recommended Practice. Manual of 19 can Railway Association—Mechanical Divn.	H(2) 3-1b.
Statics. Graphic —. Elements of. A text book for st gineers and architects. 1917. E. H. Sprague.	mdents, en- <b>B(d) 25</b> .

#### SECTION E(d).-ENGINEERING BOOKS OF REFERENCE-concid.

#### Structural-

Drafting and designs of details. 1925. C. T. Bishop. E(d) 26-1.

Engineering. 1924. J. Husband and W. Harby. E(d) 26-2.

Engineers' Handbook. Data for the design and construction of steel bridges and buildings. 3rd edition. 1924. M. S. Ketchum.

E (d) 26-3.

Members. Strength and elasticity of —. 1903. R. J. Wood. E (d) 26-4.

A (4) 20-21

- Surveying.—A manual of —— for the use of students in —— and engineering. 1924. N. N. Mitra. E(j) 18.
- Tables showing the weight of different lengths of round, square, flat, bar, and cast iron and of steel, brass, copper lead, tin and zinc; and also weight of cast iron pipes, cast iron cylinders, strength of rolled T iron, and many other useful tables. S. Penn and A. W. Byberg.

  E(d) 27.
- Train Lighting. Instructions (Crawford system) of Electrical supply, for Railway carriages. 1909. C(g) 1.
- Unfired Pressure Vessels. Rules for the construction of —. Boiler Construction Code. A. S. M. E. 1927. H(p) 2-1b.

सन्दर्भव उपते

### SECTION E(e).—HYDRAULICS, WATER SUPPLY AND IRRIGATION

Back Water Suppressor as applied to a hydro electric installation. An investigation of ——. Engg. paper No. 92. 1930. A. II. Gibson.
H(m) 1J-92.
Bengal Waterways, their economic value and the methods employed for their improvement. 1906. O. C. Lees. E(e) 32.
Borings. A remarkable artesian ——. Eugg. paper No. 70. 1929. W. C. Fineh. H(m) 1J-70.
Breakwater. Damage to and repair of ——. Table Bay Harbour. 1928. 1930. Engg. paper No. 102. P. H. A. Shadwell. H(m) 1J-70.
California—
Hydrography. 1903. J. B. Lippincott. E(e) 9.
Stoney Creek. Storage reservoirs on —. 1903. B. Colc. E(e) 16.
Coastline Near Rye. Changes in the —. Engg. paper No. 96. 1930. E. H. Chater. H(m) 1J-96.
Conservancy Works on the Liao River, North China. Engg. Paper No. 100. 1930. D. N. Faweett. H(m) 1J-100.
Culverts Made With Hume Pipes. Report on experiments on Model -
Bombay Government Tech. Paper No. 27. 1929. C. G. Hawes and II. S. Kahai. V(b) 1-4.
Dams for Reservoirs for irrigation, water power and domestic water supply. Construction of ——. E(e) 17.
Dans Les Canaux Decouverts Et A Travers Les Terrains Permeables.
Study of the theory and practice of the breadth of the (French) 1863. Par J. Dupuit E(e) 1.
Drainage—
Country town in the plains of India. Notes on ——. Engg. paper No. 16. 1924. F. C. Temple. H(m) 1J-16.
Flood control Engineering. 1925. G. W. Pickels. E(e) 2.
Flood —. Problems connected with —. A series of six lectures delivered at the Sibpur Engineering College. 1905. G. C. Maconchy. E(e) 3.
Ganges Delta — problems. A series of six lectures delivered at the Sibpur Engineering College. 1913. C. A. Williams. <b>E(e) 4.</b>
Interior Basin, Pacific Coast and Hudson Bay. 1903. Part IV. F. II. Newell.
Northern Atlantic Coast and St. Lawrence River. Part I. 1903. F. H. Newell. E(e) 23.
Southern Atlantic, Eastern Gulf, Eastern Mississippi River and Great Lakes. Part II. 1903. F. II. Newell. E(e) 24.
Western Mississippi and Western Gulf. Part III. 1903. F. II. Newell. E(e) 25.
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# BECTION E(e).—HYDRAULICS, WATER SUPPLY AND IRRIGATION—contd.

Drift Littoral — along the North East Coast of Kent, and the erosion of the belting cliffs near Herne Bay. Engg. paper No. 72. 1929. J. M. Lacey. H(m) 1J-72.
Filteration Works for supplying the town of Alexandria with potable
water. Engg. paper No. 1907. H. R. C. Blagdon. H(m) 1J. Flood and drainage control engineering. 1925. G. W. Pickels. E(e) 2. Flood drainage problems. 1905. G. C. Maconchy. E(e) 3. Flow. Resistance to——through locomative water columns. Univer-
sity of Illinois Bulletin No. 48. 1911. A. N. Talbot. V(a) 1-17.
Foundations. Lock ——. Construction of —— by the gravity methods. Engg. paper No. 57. 1928. G. Parker. H(m) 1J-57. Ganges Delta. Drainage problems in the ——. 1913. C. A. Williams.
Ganges Delta. Drainage problems in the ——. 1913. C. A. Williams. E(e) 4.
Ganguillet and Kutters' Formula for the flow of liquid in open channels, pipes and sewers and conduits. New tables for the complete solution of ——. 1901. E. C. S. Moore. E(e) 12.
Head Waters of the Hooghly River. Report on —. Vols. I and II. 1919. E(e) 5.
Hydraulic Tables for finding the mean velocity and discharge of open channels, according to the formulæ of Bazin and Kutter. 1898.  2nd edition. T. Higham.  E(e) 6.
Hydraulics—
for Engineers and Engineering Students. 4th edition. 1923. F. C. Lea. E(e) 7.
Treatics on 5th edition. 1898. M. Merriman. E(e) 8.
Hydro Electric— Installations. Surge chamber in —. Methods of calculation. Engg. paper No. 55. 1927. R. S. Cole. Survey of India. Water power Resources of India. Preliminary Report on the —. 1919. J. W. Meares and G. T. Barlow. II Report 1920. F. E. Bull and J. W. Mears. 111 Report. 1922. J. W. Meares.  E(e) 29.
Hydrography. Californian —. 1903. J. B. Lippincott. E(e) 9.
Hydrostatics and Elementary Hydrokinetics. 1892. G. M. Minchin. E(e) 10.
Inland Waters and their Sca approaches. 1922. W. A. Williams. E(e) 31.
Irrigation –
Commission. Indian—. Report of the——Vols. I, II, III and IV. 1901 and 1903.  Pioneer—. A manual of information for farmers in the colonies with additional chapter on Light Railways. 1904. E. O. Mawson and E. R. Calthrop.  E(e) 11.
Pocket Book of facts, figures and formulæ for Irrigation Engineers. 1920. R. B. Buckley. E(d) 13.

# SECTION E(e).—HYDRAULICS, WATER SUPPLY AND IRRIGATION—contd.

Karachi Model Testing Station on a Model of finmed Regulator. Report on experiments carried out at —— Bombay Govt, Tech. Paper No. 31.
1929. C. G. Hawes and H. S. Kahai. V(b) 1-7.
Kutters' and Ganguillet Formula for the flow of liquid in open channels, pipes and sewers and conduits. New tables for the complete solution of ——————————————————————————————————
Land. Reclamation of ——from tidal waters. 1900. A. Beazeley. E(e) 13.
tables for the solution of Ganguillett and Kutters' formula for 1901. E. C. S. Moore.
Lloyd Barrage and Canals Construction. Report on the experiments carried out in the Central Designs Division—— in the Karacha Testing Station on a model of syphon proposed to be constructed on the N. W. R. Bombay Govt, Tech. Paper No. 33. 1930. C. G. Hawes and H. S. Kahai.  V(b) 1-8
Lloyd Barrage at Sukkur. Notes on experiments carried out with
various designs of piers and sills in connection with the
<b>V(b)</b> 1-6.
Modules. Notes on designing adjustable proportional —— Punjab Govi T. P. No. 26-A. 1925. C. A. Colver. V(b) 3-2
Piling. Screw — with particular reference to screw piled sewage sea outfall works. Engg. Paper No. 94. 1930. II. Herrod. H(m) 1J-94.
Pipe Lines. Oscillations of pressure in during closure. Engapaper No. 74. 1929. E. Parry. H(m) 1J-74.
Piumbing. House ——. Hydraulies and pneumatics of ——. Tests on. University of Illinois Bulletins No. 143. 1924. H. E. Babbitt. V(a) 1-77.
Punjab Irrigation. History of and notes on —— Research Development. Technical Review. 1925. <b>E(e) 14</b> .
Rainfall. U. S. A. Relation of —— to run off in the ——. 1903. G. W. Rafter. E(e) 15.
Rain Gauge without clock work. Experimental development of an automatic integrating 'intensity' —. Engg. paper No. 2. 1923, H. II. Jeffcott. H(m) 1J-2.
Research Work done by the Special Irrigation Division since its formation in June 1916. Notes on — Bombay Govt. T. P. No. 28. 1929. C. C. Inglis. V(b) 1-5.
Reservoirs-
California. Storage — on stony ereek. 1903. Burt Cole. E(e) 16.
for Irrigation, water power, and domestic water supply with an
account of various types of dams and the methods and plans of

## SECTION E(c).—HYDRAULICS, WATER SUPPLY AND IRRIGATION—contd.

Reservoirs—coneld.
Reinforced concrete — in Sonth Australia. Construction of Engg. paper No. 103. 1930, H. E. Bellamy. H(m) 1J-103
Reservoirs. Storage capacity and flood regulation of —— General theory of the ——. 1912. Captain A. F. Garrett. E(e) 18
River—
Engineering. Problems in the theory of ——. Engg. Paper No. 71 1929. H. Chatley. H(m) 1J-71
Mississippi. Engineering works of the ——. Notes on ——including brief descriptions of the methods adopted by the Mississipp Engineers. 1900. E. F. Dawson. E(e) 19
Rother. Improvement works. Engg. paper No. 97. 1930. F. M G. Du plat Taylor. H(m) 1J-97
Training and control on the guide bank system, used in India for the control and guidance of great alluvial rivers. 1903. F. J. E Spring. E(e) 20
Training Works of the Ganges at Hardwar in connection with the Ganges Canal. 1900. W. W. Smith and C. G. Palmer. E(e) 21
Without Embankments, Regulation of ——as applied in the training works at the headquarters of the Rangoon River. 1924 F. A. Leete and G. C. Cheyne. <b>E(e) 22</b>
Sea Water. Deterioration of structures of timber, metal and concrete exposed to action of ——. 1st report of the Committee of C. Es appointed to investigate the ——. 1920. P. M. Crosthwaite and G. R. Redgrave.  H(m) 1-0
Scotic Tank Effluent by dilution, irrigation, and digestion. Disposa of —. Engg. paper No. 65. 1928. F. C. Griffin. H(m) 1J-65
Steam Measurements of the U.S.A. Report of the progress of —— for the calendar year 1902.
Part I—Nothern Atlantic Coast and St. Lawrence River drainage, 1903. F. H. Newell. <b>E(e) 23</b>
Part II—Southern Atlantic, Eastern Gulf, Eastern Mississippi River and Great Lakes drainage. 1903. F. H. Newell.
E(e) 24
Part III—Western Mississippi and Western Gulf drainage 1903. F. H. Newell. <b>E(e) 25</b>

Storm Water Discharge from inhabited areas. Estimation of —. Engg. Paper No. 4. 1923. G. S. Coleman. H(m) 1J-4.

1903. F. H. Newell.

Part IV-Interior basin, Pacific Coast and Hudson bay drainage.

E(e) 26.

Syphons. Large capacity spillway ——. Report on a visit to Enropean countries to study the working of ——. 1924. P. Davies. E(e) 27.

Tube Well experiments at Lahore. Punjab, Govt. T. P. No. 62. 1910. V(b) 3-3.

# SECTION E(e).—HYDRAULICS, WATER SUPPLY AND IRRIGATION—concid.

Water—
Circulating ——. Mechanical screening of —— and sewage. Engg. paper No. 5. 1923. H. Addison. H(m) 1J-5.
Head at Madras. Construction of a Break — Engg. Paper No. 38, 1926. C. R. White. H(m) 1J-38.
and power supplies. 1899. A. E. Silk. E(e) 28.
Logging of the Soil in the vicinity of Punjab Irrigation Canals and measures for the prevention of water logging. Punjab Govt. T. P. No. 20 (Supptt. only). 1924.
Power Resources of India. Preliminary report on the 1919. G. T. Barlow, J. W. Meures. II and III Reports. E(e) 29.
Supply.— Construction of wells and Bore holes for —— and the elements of the analysis and purification of water. 1925. J. E. Dumbleton. <b>E(e)</b> 30.
Karachi—. Report on the Malir River Boring investigations for—. Bombay Govt. T. P. No. 11. 1925. V(b) 1-2.  Tempy, and semi-permanent—. Royal Engineers Professional paper No. 10. 1918. V. P. Smith. V(b) 6.
Water
And their Sea Approaches. Inland —. 1922. W. A. Williams. E(e) 31.
Tidal —. Reclamation of Land from —. 1900. A. Beazeley. E(e) 13.
Waterways— — in Bengal, their economic value and the methods employed for their improvement. 1906. O. C. Lees. E(e) 32.  Regime of navigable—— of international concern. Convention on the —— and to the declaration recognising the right to a flag of states having no sea coast. League of Nations. Barcelona Conference. 1921.
Waterworks
Letchworth — with particular reference to the sinking of bore- holes and wells. Engg. paper No. 77. 1929. A. W. E. Bullmore. — H(m) 1J-77.
Poole — Engg. paper No. 45. 1927. H. R. Lintern. <b>H(m) 1J-45</b> .
Weirs— Discharge over—. Effect of surface waves on —. Engg.
paper No. 99. 1930. A. H. Ginson.  Islam — Sutlej valley project. Engg. paper No. 69. 1929.  R. W. H. Downing.  The paper No. 6. 1923.
Side ——, Discharge capacity of ——, Engg. Paper (H. S. Coleman, and D. Smith.  Well Sinking Work. Nadrai Aqueduct. W. B. Gordon.  Wells. Tube —— on the E. B. Railway.  E(e) 33.

# SECTION E(f).—MISCELLANEOUS ENGINEERING AND SCIENT'S FIC BOOKS.

Aprie1\_\_

64A-1M-
or Wire Rope Tramways their construction and management.  1898. A. J. Wallis Tayler.  E(f) 1
Ropeways. Notes on —. Punjab Govt. Tech. Paper No. 67. 1913. A. S. Holme. V(b) 3-4.
Carpentry. Elementary principles of ——1899. J. T. Hurst and T. Tredgold. E(f) 2.
Ceylon Government Railways. Papers on the ——. Excerpt Minutes of Pros. of C. Es. 1880. J. R. Mosse. H(m) 1-D-3
Civil Engineering. A manual of 1900. W. J. M. Rankine and W. J. Millar. E(f) 3.
Contractors. Standard wording for work orders to 1920. G. I. P. Railway. E(f) 4.
Decades. Memoirs and addresses of two—. (Λ collection of technical papers, etc., on Civil Engineering profession by J. A. L. Waddell.) 1928. F. W. Skinner. E(f) 9.
Engineering—
Congress. International - held at Glasgow. 1901 :-
(1) Report of the pros. and abstracts of the papers read with a preface by Robert Caira. 1902.
(2) Proceedings of the Section I on Railways. 1902.
(3) Proceedings of Section II on Waterways and Maritime works. 1902. <b>H(k) 3-1.</b>
Congress. Punjab Proceedings of the 1918 and 1919. H(k) 5.
Production. Recent progress in 1924. C. M. Liuley. E(f) 5.
Railway. Mcchanical ——. (General). Instruction paper by the Railway Educational Bureau. Y(a) 8-B.
Standards Committee. Reports on the progress of work. 1st, 2nd, 3rd, 4th and 8th reports for 1905, 1906, 1908, 1909 and 1912. <b>H(c) 13-1.</b>
Fan. Characteristics for a —. Tests to determine the effects of throttling the inlet on the —. Engg. paper No. 51. 1927. II. Mawson. H(m) 1J-51.
Materials —
—— of Construction as used in India. 2 volumes. 1924. N. N. Mitra. E(d) 7-1.

of Construction. Testing of —. A text book for the Engineering laboratory and collection of the results of experiment. 2nd edition. 1899. W. C. Unwin. **E(f)** 6.

# SECTION E(f).—MISCELLANEOUS ENGINEERING AND SCIENTIFIC BOOKS—contd.

Materials—concld.
of Construction. Treaties for Engineers on the strength of Engineering materials. 1897. J. B. Johnson. E(f) 7.
Strength and properties of — with description of the system of testing. 1891. W. G. Kirkaldy. E(f) 8.
Memoirs and Addresses of two Decades. A collection of technical papers, etc., on Engineering Profession by J. A. L. Waddell. 1928. F. W. Skinner. E(f) 9.
Microscopy. The construction, theory and use of the ——. 1909. E. J. Spitta. E(f) 10.
Motive Power—
Engines. The testing of ——including steam engines, turbines, locomotives, boilers, condensers, internal combustion engines, gas producers, refrigerators, air compressors, fans pumps, etc. 1920. R. Royds. E(f) 11.
— in India its cost and selection. 1918. F. E. Bharucha.
New Zealand and Ceylon Government Railways. Papers on——. Excerp: Minutes of Pros. of the C. Es. 1880. J. R. Mosse.  H(m) 1D-3.
Noise and Vibration. Prevention of 1923. A. B. Eason. E(f) 22.
Professional Papers of the Corps of koyal Engineers. 1900. 1901, 1902, 1903, 1904. H(m) 10-1.
Public Works in Nigeria. Engg. paper No. 93. 1930. C. L. Cox. H(m) 1J-93.
Railway—
Appliances. A description of details of railway construction subsequent to the completion of the earthworks and structures including a short notice of Railway Rolling Stock. 1893. J. W. Barry.
Engineering. Way and Works. Notes an Data on — chiefly applicable to lines in new countries. 1925. F. Reeves. E(f) 14.
Structures. Application of iron to—. Report of the commissioners appointed to enquiries into the—. Vols. I and II.  E(f) 15.
Road Making. Modern
Rock Blasting—
A practical treaties on the means employed in blasting rocks for industrial purposes. 1879. G. G. Andre. E(f) 17.
— in mines, quarries, tunnels, etc. 1909. A. W. Daw and Z. W. Daw. (Principles of rock blasting and their general application.)  E(f) 18.

# SECTION E(f).—MISCELLANEOUS ENGINEERING AND SCIENTIFIC BOOKS—concid.

Ropeway
Aerial or wire —— tramways. 1898. A. T. Wallis-Tayler. E(f) 1.
Aerial gravity —— for use in mountainous countries. The timber
carrier and improved A note explaining its erection,
working, cost of material, cost of working and saving over
hand labour. 1915. Civil and Military Gazette, Lahore.
<b>E</b> (f) 19.
Springs. Laminated —. Calculations, design and manufacture of —. 1923. T. II. Sanders. E(f) 20.
Standards Coded Lists issued by the Engineering Standard Committee :
Vol. II.—Rails, pipe flanges, serew and pipe threads and portland cement. H(c) 13-A.
Vol. III,—Telegraph materials, electrical machy, tramway poles,
trolley groves, wire and copper conductors.
H(c) 13-B.
H(c) 13-B.  Steam and other Vapours. Properties of ——. J. B. Peace. E(f) 21.
Steam and other Vapours. Properties of —. J. B. Peace. E(f) 21.  Structural Members Strength and elasticity of —. 1903. R. J.  Woods. E(d) 26-4.
Steam and other Vapours. Properties of —. J. B. Peace. E(f) 21. Structural Members Strength and elasticity of —. 1903. R. J.
Steam and other Vapours. Properties of ——. J. B. Peace. E(f) 21.  Structural Members Strength and elasticity of ——. 1903. R. J.  Woods. E(d) 28-4.  Technical Reports and Scientific Papers. Imperial Institute of United
Steam and other Vapours. Properties of —. J. B. Peace. E(f) 21.  Structural Members Strength and elasticity of —. 1903. R. J.  Woods. E(d) 28-4.  Technical Reports and Scientific Papers. Imperial Institute of United Kingdom and the Colonies and India. 1903. W. R. Dunstan.  H(m) 4.
Steam and other Vapours. Properties of —. J. B. Peace. E(f) 21.  Structural Members Strength and elasticity of —. 1903. R. J.  Woods. E(d) 28-4.  Technical Reports and Scientific Papers. Imperial Institute of United Kingdom and the Colonies and India. 1903. W. R. Dunstan.  H(m) 4.  Timber Carrier and Improved Aerial Gravity Ropeway for use in moun-
Steam and other Vapours. Properties of —. J. B. Peace. E(f) 21.  Structural Members Strength and elasticity of —. 1903. R. J.  Woods. E(d) 28-4.  Technical Reports and Scientific Papers. Imperial Institute of United Kingdom and the Colonies and India. 1903. W. R. Dunstan.  H(m) 4.
Steam and other Vapours. Properties of —. J. B. Peace. E(f) 21.  Structural Members Strength and elasticity of —. 1903. R. J.  Woods. E(d) 26-4.  Technical Reports and Scientific Papers. Imperial Institute of United Kingdom and the Colonies and India. 1903. W. R. Dunstan.  H(m) 4.  Timber Carrier and Improved Aerial Gravity Ropeway for use in mountainous countries. 1915. Civil and Military Gazette, Lahore.  E(f) 19.
Steam and other Vapours. Properties of —. J. B. Peace. E(f) 21.  Structural Members Strength and elasticity of —. 1903. R. J.  Woods. E(d) 28-4.  Technical Reports and Scientific Papers. Imperial Institute of United Kingdom and the Colonies and India. 1903. W. R. Dunstan.  H(m) 4.  Timber Carrier and Improved Aerial Gravity Ropeway for use in mountainous countries. 1915. Civil and Military Gazette, Lahore.  E(f) 19.  Tramways. Aerial or wire rope ——, their construction and manage-
Steam and other Vapours. Properties of —. J. B. Peace. E(f) 21.  Structural Members Strength and elasticity of —. 1903. R. J.  Woods. E(d) 28-4.  Technical Reports and Scientific Papers. Imperial Institute of United Kingdom and the Colonies and India. 1903. W. R. Dunstan.  H(m) 4.  Timber Carrier and Improved Aerial Gravity Ropeway for use in mountainous countries. 1915. Civil and Military Gazette, Lahore.  E(f) 19.  Tramways. Aerial or wire rope —., their construction and management. A. J. Wallis Tayler. 1898.  E(f) 1.
Steam and other Vapours. Properties of —. J. B. Peace. E(f) 21.  Structural Members Strength and elasticity of —. 1903. R. J. Woods.  Technical Reports and Scientific Papers. Imperial Institute of United Kingdom and the Colonies and India. 1903. W. R. Dunstan.  H(m) 4.  Timber Carrier and Improved Aerial Gravity Ropeway for use in mountainous countries. 1915. Civil and Military Gazette, Lahore.  E(f) 19.  Tramways. Aerial or wire rope —. their construction and management. A. J. Wallis Tayler. 1898.  E(f) 1.  Vibration and Noise. The prevention of —. A. B. Eason. E(f) 22.
Steam and other Vapours. Properties of —. J. B. Peace. E(f) 21.  Structural Members Strength and elasticity of —. 1903. R. J.  Woods. E(d) 28-4.  Technical Reports and Scientific Papers. Imperial Institute of United Kingdom and the Colonies and India. 1903. W. R. Dunstan.  H(m) 4.  Timber Carrier and Improved Aerial Gravity Ropeway for use in mountainous countries. 1915. Civil and Military Gazette, Lahore.  E(f) 19.  Tramways. Aerial or wire rope —., their construction and management. A. J. Wallis Tayler. 1898.  E(f) 1.

### SECTION E(g).—SANITATION.

Effluent Farm									
Technical	paper	No.	17.	1927.	C.	C.	Inglis.	<b>V</b> (b)	1-3.
Sanitary									

Conference. Proceedings of the 2nd all-India —— held at Madras. 1912. Vol. IV. H(g) 4.

Engineering. A practical treatics on the collection removal and final disposal of sewage and the design and construction of works of drainage and sewarage. E. C. S. Moore. 1898.

 $\mathbf{E}(\mathbf{g})$  1.

Septic Tank Effluent by dilution, irrigation, and digestion. Disposal of Engg. paper No. 65. 1928. F. C. Griffin. H(m) 1J-65.

### Sewage-

Disposal in India and the East. 1924. (†. B. Williams. **E(g) 2**. Mechanical screening of circulating water and ——. Engg. paper No. 5. 1923. II. Addison. **H(m) 1J.5**.

Sea Outfall Works. Serew piled —. Serew piling, with particular reference to —. Engg. paper No. 94. 1930. H. Herrod. H(m) 1J-94.

--(---) --- ---



## SECTION E(h).—SIGNALS AND INTERLOCKING.

A. B. C. Despatch System as used on the Northern Pacific Railways. H. A. Cameron. 1913. S(c) 6.	
Block Working on double and quadruple lines by Sykes three position style "L" block instruments. M. & S. M. Railway Rules for——.  J(c) 19.	
Signal—	
and Interlocking Rules. Block Standard Code of the American Railway Association. 1928. <b>H(a) 3-8.</b>	
and Interlocking Standards Committee. Report of the  H(c) 32.	
Dictionary. 1908. Railway Signal Association. E(d) 24.	
Engineering, Railway Mechanical ——. 1912. L. P. Lewis. E(h) 1.	
Engineers. Railway — Pros. of the Institute of —.	
Operation. Block —. A practical manual of. 1897. W. L.	
Derr. Praetical manual of 1897. W. D. E(h) 2	•
Signalling—	
and Interlocking. Permanent way material, plate laying, and	L
points and crossing with a few remarks on —. 9th edition 1928. W. H. Cole and Sir G. Hearn.	
Automatic Railway ——. An introductory treatment of the purposes, equipment, and methods of automatic signalling and track circuits for steam and electric railways. 1922. F. R. Wilson E(h) 3	•
First principles of Railway — including an account of the legislation in the U. K. affecting the working of Railways and the provision of signalling and safety appliances. 1910. C. B. Byles.	<b>3</b>
Mechanical Railway —. An introductory treatment of the principles, methods and equipment for ——; the preparation of signalling scheme; and the principles of interlocking. 1923 F. R. Wilson.	a 3. 5.
Modern development in Railway —	L.
Modern Railway —. 1925. M. G. Tweedie and T. S. Lascelles	ł.
Notes on Railway —. An elementary Handbook on the practica side of the subject. J. Parsons and B. W. Cooke. E(h) &	ıl
Power Railway —. II. R. Wilson.	€.
Railway —. H. R. Wilson.	1

## SECTION E(h).—SIGNALS AND INTERLOCKING—concld.

### Signalling-concld.

- Theory and practice. A practical manual for engineers, transportation officers and students. 1928. S. T. Dutton. E(h) 11.
- ---- through space without wires. (Being the work of Hertz and his successors. O. J. Lodge). E(m) 1.
- Signals. Fixed —. Principles of signalling for lines with dense traffic and for large station. Form of day and night signals. Signals lights and automatic block signals. Int. Rly. Congress Assocn. Question No. IX. 1925. Reports Nos. 1 to 3 by Messrs. W. H. Elliott, Laigle and Thorowgood.

  H(a) 11-1,

#### Train Control-

- A. B. C. system of ——. Reprint from Royal Engineers Journal for June 1912. E(h) 12.
- Report on British and American practice of controlling and signalling railway trains. 1909. F. D. Couchman and H. F. E. Freeland. E(h) 13.

## SECTION E(j).—SURVEY AND CONSTRUCTION.

Aeroplane Photo Surveying. Experiments in —. Survey of India. Professional paper No. 19. 1920. C. G. Lewis and H. G. Salmond. V(b) 7.

Bench Marks—

G. T. Survey of India. Account of the operations of —. 1910.

Vol. XIX.—Levelling of precision in India 1859-09.

Vol. XIX-A.—Description and heights of bench marks on Southern Lines of levelling.

Vol. XIX-B.—Description and heights of bench marks on

Northern lines of levelling. **E(j) 13**.

in sheets Nos. 35, 38, 40, 43, 44, 45, 46, 47, 48, 49, 52, 53, 54, 55, 56, 57, 63, 64, 66, 72, 78, 79, 83, 84, 92, 93, 94 (and 95 of 1916). Levelling of precision in India. 1911. Survey of India. **E(j) 14**.

#### Construction-

Light Railway ---. The economics of. 1866. E. R. Calthorp.

**E**(j) 1.

Railroad ——. Theory and practice. A text book for the use of students in colleges and technical schools and a handbook for the use of engineers in field and office. 1922. 7th edition. W. L. Webb.

Railway — Longmans' Civil Engineering series. 1898. W. H. Mills. E(j) 3

Standard — methods. 1927. G. Underwood. E(j) 4.

#### Earthwork-

Railway Engineering. Glasgow text book. 1921. J. W. F. Gardner E(j) 5.

Tables. Practical—— and calculations of banks and cuts made easy. 1918. N. N. Mitra. E(j) 6.

## Field Engineering-

A handbook of —— with useful tables. G. R. Hearn and A. G. Wat son. 1913. E(j) 7.

Railroad - Handbook of. 1900. J. B. Henck. E(j) 8.

Theory and practice. A handbook of railway surveying, location and construction. 16th edition. 1907. W. H. Searles.

E(j) 9.

Gauge. Uniform Railway ——. Commonwealth of Australia. Papers dealing with the history of the movement. Report of the Royal Commission Estimate, etc. 1927.

Hill Railway. The Penang ----. Engg. paper No. 26. 1925. A. R. Johnson.

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## SECTION E(j) -SURVEY AND CONSTRUCTION-contd.

Inclines. Abt. system of railway for steep ——. Excerpts Minutes of Pros. of the A. S. C. E. 1886. W. W. Evans. H(p) 1-2(a).
Levelling-
G. T. Survey of India. 1910.
Vol. XIX.—Levelling of precision in India 1859-09.
Vol. XIX-A.—Description and heights of bench marks on Southern Lines of levelling.
Vol. XIX-B.—Description and heights of bench marks on Northern Lines of Levelling. E(j) 13.
in the Sudd Region. Engg. paper No. 18. 1924 A. E. Griffin. H(m) 1J-18.
of precision in India. Heights of Bench marks in sheets Nos. 35, 38, 40, 43, 44, 45, 46, 47, 48, 49, 52, 53, 54, 55, 56, 57, 63, 64, 66, 72, 78, 79, 83, 84, 92, 93, 94 (and 95 of 1916). 1911. Survey of India.
Location—
Design of Railway ——. 2nd edition. 1924. C. C. Williams. E(j) 11.
Railway —. The economic theory of —. 6th edition. A. M. Willington. E(j) 12.
Permanent Way work and Surveying. The practice of Railway. 1920. S. W. Perrott and F. E. G. Badger. E(j) 19.
Plans. Preparation of —— for Railways. 1927. Sir G. Hearn. E(j) 15.
Railway Engineering. Pioneer —. 1923. II. Stringers. E(j) 16.
Railway in Bengal. Papers on the proposed —. 1853. A collection of records of the Government of India Home Department. E(j) 17.
Sudan Government Railways and Steamers. Engg. paper No. 35. 1926. F. G. A. Pinckney. H(m) 1J-35.
Survey—
of India—
G. T. —. Account of the operation of —. 1910. Levelling of precision and bench marks. Vols. XIX, XIX-A and XIX-B.
E(J) 18.
Levelling of precision in India. Bench Marks in sheets Nos. 35, 38, 40, 43—49, 52—57, 63—66, 72—79, 83, 84, 92—95. 1911. <b>E(j) 14</b> .

Notes on Railway ---. Engg. paper No. 54. 1927. G. W. N.

Rose.

H(m) 1J-54.

## SECTION E(j).—SURVEY AND CONSTRUCTION—concld.

C			2		
Su	۲V	eу	ш	g	_

- and permanent way work. Railway —. The practice of. 1920. S. W. Perrot and F. E. G. Badger. E(j) 19.
- Manual of —. A text and reference book designed for the use of surveyors and engineers generally but especially for the use of students in surveying and Engineering. 1924. N. N. Mitra. E(i) 18.
- G. W. Usil and A. Beazeley. 8th edition. 1904.
- Tunnel. Mossgiel. Reconstruction of the. Engg. paper No. 53. 1927. D. McLellan. H(m) 1J-53.

### Tunnelling...

- Practical 1896. F. W. Simms and D. K. Clark. E(j) 21.
- Practical treaties on —. 1901. C. Prelini and C. S. Hill.

E(j) 22.

Subaqueous — in compressed air with reference to the barking power station cable tunnel under the river Thames. Engg paper No. 43. 1927. D. S. Matheson. H(m) 1J-43

सम्बद्ध स्था

### SECTION E(k).-TRACK AND STATION YARD DESIGNS.

Crossings and Switches. Formulæ for ascertaining the angles of crossings, lengths of switches and distances of points of crossings and heels of switches from springing of curve. 1871. D. Donaldson.

E(k) 9.

### Curve(s)-

- Highway —. Superelevation of. Engg. paper No. 50. 1927. F. L. Leeming. H(m) 1J-50.
- Railway —. New method for the improvement of existing —. Engg. paper No. 3. 1923. W. H. Shortt. H(m) 1J-3.
- registance. Study of mechanics of —. Bulletin No. 207 of 1918 of the A. R. E. Assocn. J. G. Sullivan. H(a) 5.
- Transition by offsets and by deflection angles. 2nd edition. 1907. C. L. Crandall. E(k) 19.
- Engine Changing Stations. Layout of ——. Report on the —— in U. S. A. 1925. R. C. Case. R(b) 24.

### Gauges-

- Indian Railway. Excerpt Minutes of Pros. of C. E.s. 1906. F. R. Upcott. H(m) 1D-1.
- Indian Railway —— problems. Excerpt Minutes of Pros. of C. Es. 1922. F. G. Royal Dawson. H(m) 1D-1a.
- Uniform Railway —. Commonwealth of Australia. Report of the Royal Commission. 1922. H(d) 1.
- Journals of the Permanent Way Institute of India. See Secn. H(m).
- Maintenance Engineering. Railway—with notes on construction.

  1917. W. II. Sellew. E(k) 1.
- Materials. International Congress for testing Pros. of the . . 1927. Vols. I and II. H(k) 3.

## Permanent Way-

- Dimensional theory and practice of Railway —— 1922. W. Hepworth and J. T. Lee. E(k) 2.
- Inspectors. Proceedings of the ——. See Secn. H(m).
- Material, Plate lying, and points and crossings with a few remarks on signalling and interlocking. 9th edition. 1928. W. H. Cole and Sir G. Hearn.
- Modern British—. (Treating of rails, chairs, fishbolts, fishplates, keys, sleepers, ballast, rail joints, points and crossing, etc. 1915. C. J. Allen.
- Pocket book. 4th edition. 1918. J. W. Jones. E(d) 21.

## SECTION E(k).-TRACK AND STATION YARD DESIGNS-contd.

Points and Crossings for the Metre and Narrow gauge railways. 1930. K. N. Salkade. <b>E(k)</b> 5.
Rail(s)
Corrugation and its causes. Excerpt Minutes of Pros. of C. Es. 1914. S. P. W. D. Sellon. H(m) 1D-4.
Exposed—at Agra. Scientific Notes on temperatures of—. 1929. K. R. Ramanathan. E(k) 6.
Steel, for electric railways. 1914. W. Willox. Excerpt Minutes of Pros. of C. Es. H(m) 1D-4.
Steel. Loss of strength in — through use on railways. Report of the Committee appointed by the Board of Trade to enquire into the —. 1900.
Sleepers 1904. W. H. Perry. E(k) 8.
Roadway and track. 1923. W. F. Rench. E(k) 13.
Sambhar Salt Lake, Rajputana, India. Development works at ——. Engg. paper No. 30. 1925. S. A. S. Buuting. H(m) 1j-30.
Spikes. Holding power of railroad — . University of Illinois Bulletin No. 6. 1906. R. I. Webber. V(a) 1-1.
Spiral. Transition — Railway. 3rd edition 1901. A. N. Talbot. E(k) 20.
Standards Coded List issued by the British Engineering Standards Committee Vol. 1-Iron and steel tram rails.  H(c) 13.
Stress in Railroad Track. III and IV Reports of the Spl. Committee to report on ——. Reprint from Transactions of American Society of C. Es. Vol. LXXXVI-1923 and LXXXVIII-1925. H(p) 1-2b.
Switches and crossings. Formulæ for ascertaining the angles of crossings, the lengths of switches and the distances of the points of the crossings and the heels of switches from the springing of the curve. 1871. W. Donaldson.
Ties. Metal railroad —. Report on the use of — and on preservative processes and metal tie plates for wooden —. 1894. E. E. R. Tratman.
Track—  and Maintenance. Railway—. A manual of maintenance of way and structures formerly published under the title of railway track and track work. 1926. 4th edition. E. E. R. E(k) 12.  Tratman.  and Roadway. 1923. W. F. Rench.  and Track work. Railway—. 3rd edition. 1909. E. E. R. Tratman.  E(k) 14.
T ! CLITTON-19

### SECTION E(k).—TRACK AND STATION YARD DESIGNS—coneld.

#### Track-contd.

-— and Turnout Engineering. A handbook on the design of details of railroad turnout and crossing construction and a practical treatment of the principles involved. 1927. C. M. Kurtz.

E(k) 15.

Cheapest and best type of railway ---. 1907. W. H. Perry.

E(k) 16.

- Construction and maintenance. Notes on ——. 2nd edition. 1904. W. M. Camp. E(k) 17.
- B. Leslie, Permanent Way Institution. 1914. H(m) 8.
- formulæ and tables. A handbook of the theory and practice of turnouts and track connections. 1910. S. S. Roberts. E(k) 18.
- Railway —. components. Proportioning of from economic standpoint. Engg. paper No. 60. 1928. R. A. Inglis.

H(m) 1J-60.

- --- standards Committee. Reports of the ---. H(c) 35.
- --- work. Construction of new line and new second track. Instruction pamphlet No. 9 by the Educational Bureau Union Pacific Railroad Company. Y(a) 8-3.
- Terminals and trains. Passenger \_\_\_. 1916. J. A. Drooge. E(k) 10.
- Transition Curve. The by offsets and by deflection angles. 2nd edition. 1907. C. L. Crandall. E(k) 19.
- Wayside Stations for single lines of railway. Design of. Excerpt Minutes of Pros. of C. Es. 1907. F. G. Royal Dawson.

H(m) 1D-5.

### SECTION E(m).—TELEGRAPHY AND TELEPHONEY.

- Signaling Through Space Without Wires. (Being the work of Hertz and his successors.) O. J. Lodge. E(m) 1.
- Standards Coded List issued by the British Engg. Standards Committee.

  Vol. III-Telegraph materials, electric machinery, tramway poles, trolley grove and wire and copper conductors.

  H(c) 13-B.
- Telegraph and Telephones-
  - ---- section of the American Railway Association. Proceedings of the ----- for 1920, 1926 and 1929.

    H(a) 3-9a.
  - -- section of the American Railway Association. Reports of the 1927, 1928, 1929 and 1930. H(a) 3-9.

### Telegraphy-

- A forecast of the new —... Speeding up the telegraphs. Institution of Electrical Engineers. 1925. D. Murrey. H(m) 2-1.
- and Telephony. Wireless —. Year Book. 1916. E(m) 2.
- Telephone Modulations. Radio —. University of Illinois Bulletin No. 148. 1925. II. A. Brown and C. A. Keener. V(a) 1-79.

RELUE SER

## SECTION E(p).-WHARVES, PORTS, HARBOURS AND DOCKS.

Docks—
and Wharves. Designs of Bulletin No. 97 of 1917. Am. Rly. Engg. Association. H(a) 5.
and Wharves and Piers. The design, construction and maintenance of. F. M. Du Plat Taylor.
Durban, Natal, South African Railway and Harbours. The new Graving —. 1924. <b>E(p) 1</b> .
Harbours—
Bay —. Damage to and repair of the breakwater, table —. 1928. Engg. paper No. 102. 1930. L. H. A. Shadwell.
H(m) 1J-102.
-—and Dock Engineering. Development of —. 1926. Vernon Harcourt Lecture. Institution of C. Es. Sir C. G. S. Kirkpatrick.
H(m) 1E-5.
and Docks. Bombay. Maintenance dredging in—and upkeep of the navigational lighting of the port. Engg. paper No. 41. 1926. E. L. Everatt. H(m) 1J-41.
Madras —. A head for the new north arm sheltering the reformed harbour entrance. Engg. paper No. 39, 1926. F. J. E. Spring.  H(m) 1J-39.
Portsmouth —. Camber widening. Engg. paper No. 64. 1928. II. Herrod. H(m) 1J-64.
Vancouver — B. C. (Canad). Engg. paper No 27. 1925. A. D. Swan. <b>H(m) 1J-27</b> .
Jetty. Screw pile — at Bhavanagar. Construction of — Engg. paper No. 95. 1930. D. Kennedy. H(m) 1J-95.
Landing Stage and other works at Gosport. Construction of new Engg. paper No. 29. 1925. C. H. Cruttwell. H(m) 1J-29.
Mooring Berths. Serew pile ——. Engg. paper No. 37. 1926: M. A. Muirden. H(m) 1J-37.
Piers, Docks and Wharves. The design and construction and maintenance of —. F. M. Du Plat Taylor. E(p) 5.
Port(s)
—— and Docks. Appliances for handling goods in —— - Vernon Harcourt lecture. 1928. Instn. of C. Es. II. A. Reed. **M(m) 1E-4.
and Terminal Facilities. 1918. R. S. MacElwee. E(p) 2.
economies. An elementary study of port affairs. 1926. B. Cunningham. G(g) 9.
facilities of Great Britain. 2nd edition, 1924. E(p) 3.

# SECTION E(p).—WHARVES, PORTS, HARBOURS AND DOCKS—contd.

### Port(s)-contd.

- International Regime. placed under an—. Recommendations relating to the International Regime of Railways and of the recommendations relative to League of Nations Barcelona Conference. 1921. 

  H (s) 7.
- Madras.— Trust. A 15-year summary, 1904-19. Sir F. J. E. Spring. E(p) 4.
- Sea Water. Deterioration of structures in —. Work of the Committee of the Institution on the —. 1930. S. M. Dixon.

H(m) 1E,9.

- Sea Coasts. Right to a flag of state having no ——— Convention on the regime of navigable waterways of international concern and to the declaration recognising the ————. League of nations. Barcelona Conference. 1921.

  H(s) 10.
- Wharves, Docks and piers. Design, construction and maintenance of
  ——. 1928. F. M. Du Plat Taylor.

  E(p) 5.

nerius sue

## SECTION F(a).—MACHINE TOOLS.

Drills. Twist —. An investigation of. University of Illinois Bulletin No. 103. 1917. B. W. Benediet and W. P. Lukens. V(a) 1-54.



## SECTION F(b).—PUMPS.

Motive Power Engines. The testing of ——. (pumps, turbines, air compressors, steam and internal combustion engines, etc., etc.). 1920. R. Royds. E(f) 11.



## SECTION F(c).—WORKSHOP PLANT AND EQUIPMENT.

Air. Compressed — for metal workers. 1917. C. A. Hirschberg.

F(C) 5.
Foundry operation and equipment. Modern —. 1928. W. Rawlinson. F(c) 1
Lifting Appliances. Chains and other —. Memorandum on. 1915. G. S. Taylor. F(c) 2.
Locomotive Machine Shop. Fundamentals of the ——. 1926. F. M. A'Hearn. F(c) 3.
Locomotive Works. Reorganisation of the Crewe — London, Midland and Scottish Railway. 1929. F(c) 4.
Machine Shop Practice and Mechanical Engineering. 1908. S. H. Moore. E(d) 19-1.
Machinery's Handbook for machine shop and drafting room. 6th edition. 1924. Machinery Publishing Co., N. Y. E(d) 15-2.
Machinists' Handbook. American — and dictionary of shop terms 3rd edition. 1920. F. H. Colvin and F. A. Stanley. <b>E(d)</b> 15-1.
Metal Workers. Compressed air for ——. 1917. C. A. Hirschberg. F(c) 5.
Shafts—
Loaded and unloaded — Whirling and vibrating speeds of — . Engg. paper No. 36. 1926. T. M. Naylor. H(m) 1J-36.
Loaded tapered —. Whirling speeds of —. Engg. paper No. 29. 1925. T. M. Naylor. H(m) 1J-29
Strength of ——. Effect of keyways on the ——. University of Illinois Bulletin, No. 42. 1909. V(a) 1-11.
Shop Practice (General). Instruction paper by the Railway Educational Bureau. Y(a) 8L-1.
Springs. Laminated — their calculations, design and manufacture 1923. T. H. Sanders. E(f) 20
Welding-
and Cutting. Oxy-acetylene and electric —. Genl. rformation and standard practices. 1925. Norfolk and Westerd Railway Co. F(c) 6
Arc. —. Lincoln prize papers submitted to the American Society of Mechanical Engineers. 1929. E. P. Hulse. F(c) 7.

L386RB II

## SECTION F(d).—MISCELLANEOUS MACHINERY.

Appliances, Mechanical—
Excavating machinery as represented by power shovels, drag lines and grabbing eranes. 1928. W. Barnes. F(d) 1.
Handling Goods in Ports and Docks. Appliances for — Vernon Harcourt lecture. 1928. Institution of C. Es. H. A. Reed.
H(m) 1E-4.
Lifting and pressing machinery. Hydraulic, steam and hand power.  ———————————————————————————————————
Material handling. A reference book of —. F(d) 3.
Material handling and storing. A treatise on the Automatic and semi-automatic handling and storing of commercial products. 1922. G. F. Zimmer and J. P. Griffith. 3rd edition. <b>F(d) 4</b> .
Office machines, appliances and methods. 1921. W. Desborough. F (d) 5.
Traffic. Handling of Railway —. 1921. G. Bulkeley. F(d) 6.
Gears. Spur - Investigation of the efficiency and durability of
and J. W. Huckert.  University of Illinois Bulletin No. 149. 1925. C. W. Ham V(s) 1-80.
Machine Design. Elements of —. Text book of Science Part I. General principles, fastenings and transmissive machinery. 1897. W. C. Unwin. Part II. Chiefly engine details. F(d) 7.
Machinery and Mill Work. A manual of —— 1880. Professor Rankine. F(d) 8.
Machinist Gear Book. American ————————————————————————————————————
Material Handling Cyclopedia. 1921. R. V. Wright. E(d) 17-1.
Materials of Construction—
Testing of —— 1899. W. C. Unwin. <b>E(f) 6</b> .
Treatise for Engineers on the strength of Engineering materials. 1897. J. B. Johnson. E(f) 7.
Mechanics of Machinery. 1927. C. W. Ham and E. J. Crane. E(d) 15-3.
Shops and Factories. Engineering of — 1912. H. G. Tyrell. E(d) 12-6.
Vapour Compressor. Turbo — and their application to refrigeration. Engg. Paper No. 98. 1930. H. Mawson. H(m) 1J-98.

L286RB 2

## SECTION G(a).-AIR ORAFT.

Aeronautics. Notes on me lical aspect of —— 1919. Major T. S. Rippen. G(a) 1.

Air Craft. Constructional Engineering of —— 1925. Instn. of C. E1. Lecture to Students. R. K. Pierson. H(m) 1E 1.

Aviation and its relationship to Railways. The present position of Civil
——. 1931. Ry. Research Service. G(a) 2.

Flying Stations. Construction and maintenance. Engg. paper No. 17. 1924. H. A. Lewis-Dale. H(m) 1J-17.



## SECTION G(b).—ARTS, INVENTIONS AND DESIGNS

Franco British Exhibition. 1909. Indian Section. Report on the G(b) 1.

Light and Shadow. Hints on —— and composition. Samuel Prout.

G(b) 2.

Stone-carving. Monograph on —— and in-laying in the Punjab.

1904-05. G(b) 3.



## SECTION G(c).-CRAFTS-RIVER AND SEA.

Steamers and Railways. Sudan Govt. —. Engg. paper No. 35. 1926. F. G. A. Pinckney. H(m) 1J-35.

Vessels. Rules and regulations for the construction and elassification of steel ——. Lloyds' Register of British and Foreign Shipping.

J(c) 14.



## SECTION G(d).—COMMERCE, INDUSTRY AND TRADE.

Belgium. Hours of labour in industry. 1922. I. L. O. Y(b) 4-1.

Chambers of Commerce. Reports of the various — in India.
See Secn. H(b).
Commerce Year Book. 1925. Deptt. of Commerce, United States.
G(d) 15.
Commercial Information Handbook of —— for India. 1924. C. W. E. Cotton. G(d) 16.
Cotton Piece Goods. Report on the import tariff on — on external competition in the — trade. 1929. G. S. Hardy. G(d) 1.
Factory—
Construction and installation in Bengal. Industries and Labour Bulletin No. 14. 1921. A. T. Weston. V(a) 2-11
English in India. 3 volumes. Sir Wm. Foster.
Vol. I—from 1661-64,
Vol. 11-1665-67, and
Vol. III—1668-69.
G(d) 2.
Gilt Wire and Tinsel Industry. Industries and Labour Bulletin No. 25. 1922. V. N. Mehta. V(a) 2-22.
Great Britain. Hours of labour in industry. 1922. I. L. O. Y(b) 4-2.
Czechoslovak Republic. Hours of labour in industry. 1924. J. L. O.
Y(b) 4-3
Henry Ford. My life and work. G(d) 3.
Indian Industrial and Commercial Congress. Report of the — held at Madras. 1928. H(k) 2.
Indian Industrial Commission Report, 1918 and Appendix. H(d) 7.
Industrial—
Disputes. Methods of compiling statistics of ——. 1926. I. L. O. Y(b) 5.
Establishments in India. Large — 1923. Commercial Intelligence Department. G(d) 17.
Handbook. 1919. Indian Munitions Board. G(d) 4.
Organisation. Evolution of 1928. B. F. Shields.
Y(f) 1.

Relations. Survey of —— 1926. Committee on Industry and Trade. Y(d) 3-4.

## SECTION G(d).—COMMERCE, INDUSTRY AND TRADE—contd.

#### Industries... Departments of ——. Progs. of the 3rd Conference of —— 1921 Industries and Labour Bulletin No. 18. V(a) 2-15. Department of ——. Progs. of the 4th Conference of the — --- Indus-V(a) 2-24. tries and Labour Bulletin No. 27. 1922. Punjab --- 1911-17. A. C. Badenoch. G(d) 5. State aid to —. Report on — in the British Empire (except India), France, Germany, U. S. A. and Japan with special reference to financial assistance to manufacturers and state manufacturing enterprises. 1923. A. Y. G. Campbell. G(d) 6. Wire and Tinsel --- in the Punjab. Monograph on the — -. 1909. E. Burdon. G(d) 7. Industry-- and Politics. Sir Alfred Mond. 1927. G(d) 8. — and Trade. (A study of industrial technique and business organization; and of their influences on the conditions of various classes and nations). 1923. A. Marshall. G(d) 9. Hours of Labour in ----Belgium. 1922. I. L. O. Y(b) 4-1. Great Britain. 1922. I. L. O. Y(b) 4.2. Czechoslovak Republic. 1924. I. L. O. Y(b) 4-3. Italy. 1923. I. L. O. Y(b) 4.4. Netherlands. 1923. I. L. O. Y(b) 4-5. Switzerland, 1923, I. L. O. Y(b) 4-6. United States. 1925. I. L. O. Y(b) 4-7. Railway —. Capital expenditures and purchases in the 1929. Bureau of Railway Economics. H(b) 2-1c. Railway ---. Economic situation in ---. 1928. Bureau of Railway Economics. H(b) 2-1b. Salt - Report and written evidence recorded during enquiry on the ---. 1930. Indian Tariff Board. 2 volumes. H(b) 1-7. State and ---. A narrative of Indian Government policy and action in relation to industry under the reformed constitution. 1928. A. G. Clow. G(d) 10. Marketing Board. Empire —— (latest issue). **M(b)** 1-8.

Paper and Paper Pulp Production in Madras Presidency. Industries

V(a) 2-21.

and Labour Bulletin No. 24. 1922. F. Marsden.

## SECTION G(d).—COMMERCE, INDUSTRY AND TRADE—coneld.

Piece Goods Trade. Notes on Indian —. Industries and Labor Bulletin No. 16. 1921. A. C. Coubrough. V(a) 2-1	ur 13.
Salt Lake at Sambhar. Development works at ——. Engg. paper N 30. 1925. S. A. S. Bunting. H(m) 1J-S	
Standards and Standardization. 1928. N. F. Harriman. G(d) 1	1.
Steel (Cheap). Effect of — on the future of commercial progress in India. A factor in India's progress being the written evident given before the Indian Tariff Board as to the —. 1923. Pilcher and R. W. Smyth and J. C. Coyajee. G(d) 1	G.
Trade in India—	
British —. Report on the conditions and prospects of. T. I Ainscough. (latest.) G(d) 1	
Review of the —— (latest). W 1	1,
Trade Mission to the Near East and Africa. Report on — 192 G(d) 1	
United States—	
Interstate Commerce Commission Reports. See Secn. H(d	).

राष्ट्रांच इस्ते

## SECTION G(g).—ECONOMICS.

Budget Enquiries. Methods of conducting Family 1926. I. L. O.
Business—
- 10/ -
Foster and A. J. Hettinger. 1924. W. M. Persons, W. T.
of Government-
Vol. III—The work of the Deptts. 1919. Ministry of Vol. III—The Civil Service. 1919. Reconstruction.
G(g) 3.
problems. Investigation of 1926. (Technique and procedure). J. Eigelberner. G(g) 4.
Ratio chart in —. 1926. P. A. Bivins. G(g) 5.
Commercial Products of India. 1908. G. Watt. G(g) 6.
Economic—
and Social Conditions in Dominion of Canada. 1903. Annals of the American Academy of Political and Social Science.
G(g) 7.
Conditions in India. 1928. P. P. Pillai. Y(d) 2.
Enquiry Committee. Reports of the See Secn. H(c)
Statesmanship. 1920. J. E. Barker. G(g) 19
Economics—
Bridgework —. 1921. J. A. L. Waddell. E(a) 3
Business — 1926. W. Ashley. G(g) 1.
Engineering —— first principles. 1915. J. C. Lounsbury Fish. E(d) 12-1.
Light Railway Construction —
Light Railways in India and their —. Paper read before the Institution of Engineers (India). F. G. Royal Dawson.
H(m) 3-3a.
Port — An elementary study of port affairs. 1926. B. Cunningham. G(g) 9.
Rail transportation in Great Britain—
Vol. II—Rates and Service.  E. C. R. Sherrington.  S(a) 6D-1.
Railway — Elements of — 1924. Wm. Acworth.  G(g) 13.

### SECTION G(g).—ECONOMICS—contd.

S. C. Ghose.

# **Economics**—concld. Railway —... Lectures on Indian ———

Part I.—1927.

Part II-Transport series. 1923.

Part III—Railway management. 1923. G(g) 14. Outline of —. 1913. D. Knoop. G(g) 15. Paper on — S. C. Ghose. 1925. G(g) 16. Publications on — by Bureau of Railway Economics. See Secn. H(b). Road transport. — of. 1925. K. G. Fenelon. S(a) 6E. 2. Transport and its history. —— of. 1915. A. W. Kirkaldy. G(g) 21. Transportation - 1926. W. T. Jackman. S(b) 2. World — Conference, League of Nations Final Report. 1927.  $\mathbf{H}(\mathbf{s})$  5. Germany. Works Councils in ---. 1924. I. L. O. Y(b) 12. Industrial Conference India. Reports of the Committee of the ——. See Secn. H(g). Living Cost. Methods of compiling cost of living index numbers. 1925. I. L. O. Y(b) 7-1. Peasant in Prosperity and Debt. Punjab ——. 1925. M. L. Darling and E. Melagan. G(g) 8. Price Levels. Variation in Indian — expressed in Index numbers. 1861-1912. 1913. Commercial Intelligence Department. G(g) 10. Prices in India. Report on the enquiry into the rise of ———— Vol. I—Report and appendices. 1913. K. L. Datta. G(g) 11. Vol. II—Statistics of prices. 1914. K. L. Datta. G(g) 11-1. Vol. III—Statistics of wages, population, agriculture, rainfall, rents, communications and freight. 1914. K. L. Datta. G(g) 11-2. Vol. IV—Statistics of trade and miscellaneous statistics. 1914. K. L. Datta. G(g) 11-3. Vol. V-Charts and Maps. 1914. K. L. Datta. G(g) 11-4.

## SECTION G(g).—ECONOMICS—coneld.

Public Welfare. Economics. An account of the relations between private property and —. 1913. A. T. Hadley. G(g) 12.
Railway Electrification. A complete survey of the economics of the different systems of —— from the Engineering and Financial points of view. 1924. H. F. Trewman. C(f) 3.
Railways. Role of the State in the provision of ——. 1924. J. M. Jagtiani and W. Aeworth. G(g) 17.
Sanitary Conference. Proceedings of the 2nd All-India — held at Madras. 1912. Vols. I, III and IV. H(g) 4.
State Regulations of Public Utilities in Illinois. 1926. C. M. Kneier. G(g) 18.
To-day and To-Morrow. 1926. Henry Ford. G(g) 20.
Wage(s)—
—and Hours of Labour. Methods of statistics of —1923. I. L. O. Y(b) 11-3.
Changes in various countries. 1914 to 1925. I. L. O. Y(b) 11-1.
Fixing Machinery. Minimum —. 1927. I. L. O. Y(b) 11-2.

सम्बंधन नहते

Wealth and Welfare of the Punjab. 1922. II. Calvert.

G(g) 22.

## SECTION G(h).—HISTORY AND GEOGRAPHY.

Coronation Durbar—
History of —. 1904. Stephen Wheeler. G(h) 1.
Imperial visit to India. Historical records of —. 1914. G(h) 2.
Military arrangements. Scheme and orders for 1911.
G(h) 3
Great Western Railway. History of ——. E. T. MacDermott. Vol. I. Parts I and II. G(h) 4.
Historical Records Commission. Proceedings of the Indian —. Vols III, IV and V. 1921. H(d) 6.
Mespotamian Campaign, 1914-18, Vol. 1. Official history of the War 1923. F. G. Moberly. G(h) 5.
Post Office of India and its story. 1921. G. Clarke. G(h) 6
Siberia. The Far Eastern Republic of —. 1923. H. K. Norton.
G(h) 8
Simla past and present with illustrations. 2nd edition. E. J. Buck.  G(h) 9.
War—
— and Conquest. Rail power in —. Rise of. 1833-14. E. A. Pratt. S(c) 7
Great — Deeds of a Great Railway. A record of the enter prise and achievements of the London & N. W. Railway during the — 1920. G. R. S. Daroch. G(h) 7.
सन्त्रमेव वयते

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# SECTION G(j).—MEDICAL, HYGIENE AND PREVENTION OF DISEASES.

of the — T. II. Bishop. Ganges Bridge. The working G(j) 1.
Horsefall Destructors. Report on the —. 1898. Lord Kelvin and A. Barr. G(j) 2.
Housing in the Tropics. Notes on —— Govt. of India. P. W. D. Technical paper No. 37. 1921. A. Balfour. V(b) 2-1.
Hygiene. Lecture on —— by the Sanitary Commissioner of Bengal to the students of the Shibpur Engineering College, in 1899. 1901. G(j) 3.
India and its Medical and Sanitary Problems. A brief description of the chief features of ——. (Souvenir the Indian Empire). 1927.  G(j) 6.
Malaria—
Anti — . Measures in Egypt since 1926. Engg. paper No. 61. 1928. A. O. W. D. Pinson. H(m) 1J-61.
eommittee. Proceedings of the 3rd meeting of the General—held at Madras. 1913. H(c) 18.
in India. Sir Patrick Hehir. 1927. G(j) 4.
Medical and Surgical Section of the American Railway Association.  Proceedings of the —— for 1928, 1929 and 1930, with index to Proceedings 1921-29.  H(a) 3-7.
Medical Research. Proceedings of the 3rd All-India Sanitary Conference held at Lucknow. 1914. Vols. II, III, IV and V. H(g) 4-1.
Banitation at Mining Villages in the Birmingham Distt. Ala 1913.  D. E. Woodbrige. T. P. No. 33 by the Departt. of the Interior Bureau of Mines. Washington. G(j) 5.
Souvenir—The Indian Empire. 7th Congress Far Eastern Association of Tropical Medicines. G(j) 6.

## SECTION G(k).-MINERALOGY, METALLURGY AND CHEMISTRY.

Air—
Entropy temperature and transmission diagrams for — University of Illinois Builetins No. 63. 1913. C. R. Richards. V(a) 1-30.
Reheating of compressed —. University of Illinois Bulletin No. 130. 1922. C. R. Richards and J. N. Vedder. V(a) 1-65.
Steam Mixtures. Study of. University of Illinois Bulletin No. 131. 1922. L. A. Wilson and C. R. Richards. V(a) 1-66.
Alloys—
for bearings. An article read before the Manchester Association of Engineers in 1929. R. T. Rolfe. G(k) 1.
lron Silicon melted in vacuo. Magnetic and other properties of —. University of Illinois Bulletin No. 83. 1915. T. D. Yensen. V(a) 1-39.
Magnetic properties of Heysler — . University of Illinois Bulletin No. 47. 1910. E. B. Stephenson. V(a) 1-16.
Alluminium in India. John Wallace. G(k) 2.
Ammonia Vapor. Properties of saturated and superheated —. University of Illinois Bulletin No. 66. 1913. G. A. Goodenough. V(a) 1-32.
Antimoney, Arsenic and Bismuth. Notes on —. Industries and Labour Bulletin, No. 6. 1921. J. C. Brown. V(a) 2-4.
Asbestos. Notes on —. Industrics and Labour Bulletin, No. 20. 1922. J. C. Brown. V(a) 2-17.
Barytes and Mineral Colours. Notes on —— Industries and Labour Bulletin No. 22. 1922. J. C. Brown. V(a) 2-19.
Bauzite, Borax, Corundum and Garnet. Notes on ——. Industries and Labour Bulletin No. 12. 1921. J. C. Brown. V(a) 2-9.
Chemical Researches in Progress. Industries and Labour Bulletin No. 13. 1921. V(a) 2-10.
Chemicals Manufactures in India. Industries and Labour Bulletin No. 21. 1921. V(a) 2-18.
Chromite and Molybdenum. Notes on ——. Industries and Labour Bulletin No. 9. 1921. J. C. Brown. V(a) 2-6.
Clay Mud. The constitution of —. Engg. paper No. 52. 1927. H. Chatley. H(m) 1J-52.
Drilling. Diamond —— for gold and other minerals. 1900. G. A. Denny. G(k) 3.
Firebrick. An X-Ray study of ——. University of Illinois Bulletin No. 193. A. E. R. Westman.

Fire Clay. Thermal conductivity of —— at high temperatures University of Illinois Bulletin No. 36. 1909. J. K. Clement. V(a) 1-8.

# SECTION G(k) —MINERALOGY, METALLURGY AND CHEMISTRY —contd.

Gaseous Mixtures. Study of explosions of —. University of Illinois Bulletin No. 133. 1922. A. P. Kratz and C. Z. Rosecrans.

V(a) 1-68.

#### Geological-

Considerations which appear to affect the safety of Khyber Railway. 1926. C. S. Fox. G(k) 4.

### Survey of India-

Memoirs of ——. Vol. XL, Part 3. Petroleum in the Punjab and N.-W. F. P. 1920. E. H. Pascoe. G(k) 5.

Memoirs of —. Vol. XLI. Part I. Coalfields of India. 1913. V. Ball and R. R. Simpson. G(k) 6.

Glasses. Soda Lime silica — at high temperatures. Viscosities and surface tensions of the — University of Illinois Bulletin No. 140. 1924. E. W. Washburn, G. R. Shelton and E. E. Libman.

V(a) 1-74.

Magnesite and Monazite. Notes on —. Industries and Labour Bulletin No. 3. 1921. J. C. Brown. V(a) 2-2.

Manganese Ores. Notes on —. Industries and Labour Bulletin No. 2. 1921. J. C. Brown. V(a) 2-1.

#### Materials-

Failure of Engineering —. 1931. E. A. Wraight. G(k) 7-1.

Failure of Railway — dealing chiefly with ferrous metals. 1930. E. A. Wraight and P. Hinde. G(k) 7.

#### Metals—

Fatigue of ----

1924. H. J. Gough.

G(k) 8.

An investigation of ——. University of Illinois Bulletin No. 124. 1918. H. F. Moore and J. B. Mommers. V(a) 1-59.

An investigation of the —. University of Illinois Bulletin No. 136. 1923. H. F. Moore and T. M. Jasper. V(a) 1-71.

Investigation of the ——. University of Illinois Bulletin No. 142. 1924. H. F. Moore and T. M. Jasper. V(a) 1-76.

Investigation of the —. University of Illinois Bulletin No. 152. 1925. H. F. Moore and T. M. Jasper. V(a) 1-81.

Metallography and Micrography. An introduction to the study of ——. 1922. L. Guillet and L. Portevin and H. C. H. Carpenter. G(k) 9.

Mica. Notes on —. Industries and Labour Bulletin No. 15. 1921. J. C. Brown. V(a) 2-12.

# SECTION G(k).—MINERALOGY, METALLURGY AND CHEMISTRY. —contd.

Mild Steel. Some properties of — with special reference to its behaviour at high temperatures. Engg. paper No. 42. 1926. E. J. Hang.

H(m) 1J-42.

#### Minerals-

- Gold and other —. Diamond drilling for —. 1900. G. A. Denny. G(k) 3.
- Metal bearing or other valuable —. Prospectors Handbook for search of —. 1919. J. W. Anderson. G(k) 17.
- Ores and other useful —. Prospector's field book and guide in the search for and the easy determination of —. 1920. H. S. Osborn and M. W. V. Bernewitz. G(k) 16.
- Prospecting for ——. A practical Handbook for persons interested in the opening up and development of new lands. 1918. S. H. Cox. G(k) 15.

#### Mineralogy-

- Economic —. 1921. T. Crook. A practical guide to the study of useful minerals. G(k) 10.
- Text book of —. 1898. With an extended treatise on crystallography and mineralogy. E. S. Dana. G(k) 11.
- Mining. Ore and Stone —. Treatise on. 1910. C. L. N. Foster and S. H. Cox. G(k) 12.
- Ore Dressing. (Vols. I, II, III and IV and Index). 1908 and 1909. R. H. Richards. G(k) 13.
- Ore Deposits. Treatise on. 2nd edition. 1896. J. A. Phillips and H. Louis. G(k) 14.
- Prospecting for Minerals. A handbook for prospectors explorers, settlers, and all interested in the opening up and development of new lands. 1918. S. H. Cox. G(k) 15.
- Prospector's Field Book and Guide in the search for and the easy determination of ores and other useful minerals. 1920. H. S. Osborn and M. W. V. Bernewitz. G(k) 16.
- Prospector's Handbook. A guide for search of metal bearing or other valuable minerals. 1919. J. W. Anderson. G(k) 17.

#### Rails-

- Hammer tests on —— rolled by Tatas. 1928. E. A. Wraight and P. Hinde. G(k) 18.
- Physical properties of ——. A comparison between the —— produced by the open hearth and duplex process. 1931. E. A. Wraight. G(k) 22.
- Production and inspection of —— at Tatas' works. 1928. E. A. Wraight. G(k) 19.

# SECTION G(k).—MINERALOGY, METALLURGY AND CHEMISTRY, —concld.

Rocks. A	handl	ook of	for	use	without	the	microscope.	5th	edi-
tion.	1918.	J. F. Kemp.						G(k)	<b>20</b> .

- Soil and Sub Soil. Surveys in the Decannan Canal Areas. C. Inglis and V. K. Gokhale. 1926. G(k) 21.
- Steel. Soft —. Sodium hydroxide on. Embrittling action of —. University of Illinois Bulletin No. 94. 1917. S. W. Parr.
  - V(a) 1-47.
- Tin. Notes on —. Industries and Labour Bulletin No. 11. 1921.

  J. C. Brown.

  V(a) 2-8.
- Welds in Steel. Oxyacetylene. Strength of. University of Illinois Bulletin No. 45. 1910. V(a) 1-14.
- Wolframe. Notes on —. Industries and Labour Bulletin. No. 7. 1921. J. C. Brown. V(a) 2-5.
- Zinc and Lead. Notes on. Industries and Labour Bulletin, No. 19. 1922. J. C. Brown. V(a) 2-16.
- Zinc. Rolled ——. Investigation of the strength of. University of Illinois Bulletin No. 52. 1911. H. F. Moore. V(a) 1-20.



## SECTION G(m).-MISCELLANEOUS.

Contribution. Indian —— towards the War, 1914 to 1918. G(m) 14-2
Delhi. On the road to —— Indian life and politics in tabloids. 1925 W. H. Peyton. G(m) 1
Earthquake in Assam. Report on the effect produced by the or
levels, drainage and navigation of certain parts of Assam. Matadir Sukul. G(m) 2
Famine Prevention Studies. Life and work of General Sir Arthur Cotton, R.E., with some ——. 1900. Lady Hope and Wm. Digby G(t) 1
Federal Constitutions of the World with special reference to the relations
of the central to the local govts. of India. A survey of the principal —. F. Whyte. G(m) 5
Federal Structure. Progs. of the Indian Round Table Conference. Vol I (Sub-Committee No. 1). 1931. H(g) 6
Finger Prints. Classification and uses of ——4th Edn. 1912. Sir E. R. Henry. G(m) 3
Graphic Methods for presenting facts. 1917. W. C. Brinton. G(m) 15.
Gulf. Bridging the A study of the background of the Indian
situation with some suggestions. 1930. By an Indian with a foreword by Sir R. N. Mookerjee. G(m) 4
India. A Federation. Sir F. Whyte. G(m) 5.
Indian Life and Politics in Tabloids. On the road to Delhi, 1925. W. H. Peyton. G(m) 1
Indian Situation. A study of the background of the with some
suggestions. 1930. By an Indian with a foreword by Sir R. N.
Mookerjee. <b>G(m) 4. Irwin.</b> Speeches by Lord ——. Vol. 1—1926-29. Vol. II—1929-31.
G(m) 8-1.
Management. Principles of Scientific 1917. F. W. Taylor.
G(m) 6.
North-West Frontier Province Subjects Committee Report. 1931.
H(c) 30.
Politics. Indian life and —— in tabloids. On the Road to Delhi. 1925. W. H. Peyton. G(m) 1.
Races of Burma. 1923. C. M. Enriquez. G(m) 7.
Reading. Speeches by Earl of ——. Vols. I and II—1921-23 and 1923-26. 1926. G(m) 8.
Reforms—
Constitutional ——. Govt. of India's despatch on proposals for ——. 1930. G(m) 16.
Constitutional —. Reports of Local Govt. on the working of —. 1923 and 1924. G(m) 16-1.

Rope. Manila. Tensile strength of. Engg. paper O. H. G. K. Moseley.

No. 88. 1930. H(m) 1J-88.

## SECTION G(m).—MISCELLANEOUS—coneld.

An introduction to —— Horace Secrist.	G(m) 9
——for Research workers. 1928. Fisher.	G(m) 10
Statistical Year Book. International —. League of Na	tions. 1927 <b>H(s)</b> 8
Statistics—	
Domestic fuel —— on State-managed Railways in Indition, publication and use of ——. 1930. H. A.	a. Prepara Outhwaite <b>M 10</b>
Elements of —, 3rd edition. 1911. A. L. Bowley.	G(m) 12-1
—— on Indian Railways. Report of the Committee for the ——. 1923.	revision of <b>H(c) 25</b>
of Industrial Disputes, Methods of compiling I. L. O.	1926 <b>Y(b)</b> 5
Railway Compilation and use. A. E. Kirkus.	G(m) 11-1
	thwaite. <b>G(m) 11-2</b> .
Manual of 1912. G. L. Boag.	G(m) 11.3
Railway operating 1923. C. P. Mossop.	G(m) 11-4
Railway-and Operating Officer. 1925. F. H. Budden.	G(m) 11-5
Ratio chart for plotting — . 1917. I. Fisher.	G(m) 12-2
Unemployment in various countries, 1910 to 1922. I.	L. O. Y(b) 9-6
Unemployment. Methods of 1925. I. L. O.	Y(b) 9-7
Unemployment. Methods of compiling ——. (Replies ernments). 1922. I. L. O.	Y(b) 9-8.
Wages and hours of Labour. Methods of 192	Y(b) 11-3.
Statutory Commission. Indian ——. Report of the. Vol. mendations. 1930. Simon.	H(d) 18.
Stores Methods and Problems. Railway — 1918. W.	
Stores Organization, Railway—Principles of — 1925. W	G(m) 13-1.
Soles Organization, Italiway—1 Interpres of ——. 1325. W	G(m) 13-2.
War, The Great—	W(11) 15 1
Memoir of the (The services of Supply). 192' Hagood.	7. Genl. J. G(m) 14-1.
Memorandum on India's contribution to —— in men, money. 1914 to 1918.	

## SECTION G(n).—OILS, PAINTS AND VARNISHES.

Oils—
- and Fats, and Waxes. 1918. A technical handbook of P. J. Fryer and F. E. Weston. G(n) 5.
and Fats from the seeds of Indian forest trees. 1922. M. G. Rau and J. L. Simonsen. L 12 9.
— and Lubricants. Specifications for — 1926. Indian Stores Department. <b>G(n) 4.</b>
Constituents of some Indian essential ————————————————————————————————————
1923. J. L. Simonsen. L 12-12.
1925. J. L. Simonsen. L 12-21.
— M. G. Rau. <b>1. 12-22</b> .
Paints— —— and Varnish in India. Manufacture of ——. 1929. N. Brodie.  G(n) 1.
Chemistry and technology of 1916. Max Toch. G(n) 2.
Notes on ——. 1928. (Specification for pigments, paints, enamels, varnishes, painters oils and miscellaneous painters' materials). Indian Stores Department. G(n) 3.
Protective — . Engg. paper No. 59. 1928. A. H. D. Markwick. H(m) 1J-59.
Petroleum in Punjab and N. W. F. P. Memoirs of the Geological Survey of India. Vol. XL, Part 3. 1920. E. H. Pascoe. G(k) 5.

# SECTION G(p).—PHOTOGRAPHY, LITHOGRAPHY, PAINTING AND COPYING.

Drawings-
Mechanical —. General instruction, instruments, materials an
lettering. Instruction paper by the Railway Education: Bureau. Y(a) 8C-
Reading working Instruction papers by the Railway Educational Bureau. Y(a) 8L-
Maps, Plans, Photographs and Diagrams. Reproduction of ——. Survey of India.
Photo Engraving. Line —. 1924. W. Gamble. G(p)
Photography for Amateurs in India. A handbook of - G. Ewing
G(p) 8
Printing. Blue — and modern plan copying. 1921. B. J. Hall.
G(p) 4
Sketching. Shop —. Instruction paper by the Railway Educationa Bureau. Y(a) 8L-3

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## SECTION G(s).—PUBLICITY.

E. B. Rly. From the Hooghly to Himalays. 1913. G(s) 1. Publicity work in India from 1st June 1918 to 31st March 1919.

G(s) 2.



#### SECTION G(t).—BIOGRAPHY.

Cotton. General Sir Arthur —, R.E. His life and work. Lady Hope and with some famine prevention studies by W. Digby. 1900.

G(t) 1.

Crompton. R. E. —. Reminiscences of Colonel —. 1928.

G(t) 2.

Ford. Henry —. The man, the worker and the citizen. 1928. J. G. De R. Hamilton.

G(t) 3.



## SECTION H(a).—ASSOCIATIONS.

Ahmedabad Mill Owners' Association. Report of the —— (latest copy)  H(a) 1.
American Bankers' Association. Automotive Transportation and Rail roads. A study of relationships now developing between highway and rail transport. 1927.
American Railroad Association. Proceedings of ——. 1919. H(a) 2.  American Railway Association—
Mechanical Division—
Equipment Painting Section. Proceedings of the ——from 1926 to 1930. H(a) 3-1a.
Manual of Standard and Recommended practice. 1925. H(a) 3-1b.
Proceedings of the ——from 1924-26, and 1928-30. <b>H(a) 3-1</b> .
Supplement to Manual of drawings for cars and trucks adopted as recommended practice. 1926. H(a) 3-1c.
Wheel and Axle Manual. Proposed —. 1928. H(a) 3-1d.
Motor Transport Division. Progs. of the ——. 1928, 1929 and 1930. (Jany., June, Oct. 1928, Mar. Novr. 1929 and June, Novr. 1930.)  H(a) 3-2.
Operating Division. Proceedings of the —— for 1927 & 1928.  H(a) 3-3.
Proceedings of the —— from 1886 to 1913, 1928, and 1929. <b>H(a) 3</b> .
Protective Section. Proceedings of the —— 1927, 1928, 1929 and 1930. H(a) 3-4.
Purchase and Stores Division. Proceedings of the —— 1927. H(a) 3-5.
Safety Section. Proceedings of the — from 1927 to 1930.
Surgical and Medical Section. Proceedings of the — for 1928. 1929 and 1930. H(a) 3-7.
Surgical and Medical Section. Index to Proceedings, 1921-29.  H(a) 3-7a.
Train Rules. Standard Code of ——. Block Signal and Interlocking. 1928. H(a) 3-8.
Telegraph and Telephone Section. Reports of the —— 1927, 1928, 1929 and 1930. H(a) 3.9.
Telegraph and Telephone Section. Proceedings of the — for 1920, 1926 and 1929. H(a) 3-9a.
Transportation Division. Proceedings of the —— for 1927 and 1928. H(a) 3-10.

## SECTION H(a).—ASSOCIATIONS—contd.

American Railway Engineering and Maintenance of war letin No. 125 of 1920. Impact text on railway bridges	y Assocn. Bul- 3. H(a) 4.
American Railway Engineering Association—	(,
Bulletins Nos. 189, 197, 207, 251, 252, 254, 255, 56, 57 62 and 84 of 1923.	7, 58, 59, 60, 61, <b>H(a) 5.</b>
Manual of the ——. 1925.	H(a) 5-2.
Proceedings of the for 1913, 19, 24, 25 and fr	om 1928.
	H(a) 5-1.
American Railway Master Mechanics' Association. Rep ceedings of the Annual convention of —— for the ye 1905-08.	
American Railway Tool Foremen's Association—	
Proceedings of the ——. 1925.	H(a) 7.
Year book, 1923 and 1924.	H(a) 7-1.
American Wood Preservers' Association. Proceedings of nual meeting of the	f the 13th Au- L 16-2.
Far Eastern Association of Tropical Medicines. Seventh Souvenir the Indian Empire. 1927.	Congress of the G(j) 6.
Indian Engineering Association—	
Correspondence relating to the purchases of stores service in India —. 1905-1923. 1924.	for the public <b>H(a) 8</b> .
Reports of the Committee of the from the years	s 1926.
	H(a) 8-1.
Indian Railway Conference Association—	
Conference Regulations, Parts I & II (latest).	H(a) 9.
Prize essays from 1912-1917 and 1920.	H(a) 9-1.
Proceedings of the ——. (Latest).	H(a) 9-2.
International Railway Congress—	
General tables relating to the French edition of the - 1887 to Dec. 1899.	— from Japy. H(a) 10-1a.
Proceedings of the - Milan. Second Session, 1887, published at Calcutta in 1890.	translated and
Part I, subjects of discussions,	
Part II, conclusions on the different subjects	s of discussion. H(a) 10.
Proceedings of the —— Fourth Session, at St. Peter (French Edition), Parts I to IV—Compte Rend	rsburg, 1893-94
•	H(a) 10-1.
Proceedings of the Fifth Session, London. 1895.	• •
Vol. I.—Report of the Proceedings,	
Vol. II.—Locomotives and Rolling stock,	
Vol. III.—General,	
Vol. IV.—Miscellaneous papers.	H(a) 10-2.

## SECTION H(a).—ASSOCIATIONS—concld.

International Railway Congress—contd.
Proceedings of the ——6th Session, Paris, 1900.
Summary of proceedings (English edition),
Programme (French edition). H(a) 10-3.
International Railway Congress Association—
Bulletins of the ——, Vols. 20 to 28 (1906-1914), from July 1919 to June 1922 and from August 1922 to date.  H(a) 11.
Proceedings of the 8th Session, Berne. 1910. Vol. I of 1910 and Vol. III of 1912. H(a) 10.4.
Question IXFixed signals, 1925.  Report No. 1 by W. H. Elliott,
Report No. 2 by Laigle,
Report No. 3 by W. II. Thorrowgood, and
Question XI—Railway Statistics—Development of — with a view of economy in operation. Report No. 1. A. E. Kirkus H(a) 11-1.
International Railway Fuel Association. Proceedings of the —.
See Secn. M.
Jute Mills' Association. Proceeding of the Committee of the —. (Latest.)  H(a) 12.
Locomotive and Carriage Superintendents' Committee. Rules for train examiners. 1925. H(a) 13.
Manchester Association of Engineers. Paper read before the — rug. Internal combustion locomotives in 1927. G. E. Windeler. H(a) 14.
Manchester Steam Users' Association. Memorandum for the prevention of steam boiler explosions and for the attainment of economy in the application of steam. 1921 and 1922.  H(a) 15.
Master Boiler Makers' Association. Proceedings of the —. 1925, 1927, 1928 and 1930. H(a) 16.
Master Car Builders' Association. History and early reports from 1867. 1878 (one vol.) and proceedings from 1874-75, 1877-1900, 1903, 1905, 1907 and 1908. H(a) 17.
Mining Association. Report of the Committee of the Indian — (latest). H(a) 18.
Mysore Engineers' Association. Bulletins of the ——from 1924 to 1931.
Railway Accounting Officers' Association. Report of the —— for 1925,
1926 and 1927. <b>H(a) 20.</b>
Railway Accounting Officers' Association. Commodity classification. 1928. H(a) 20-1.
St. John Ambulance Association. Annual Report of the Indian Council of the —— (latest).  H(a) 23.
Travelling Engineers' Association. Proceedings of the —— from 1925.
H(a) 21.

## SECTION H(b).—BOARDS, BUREAUS AND CHAMBERS.

Board(s)
American Railroad Labour ——. Its history, activities and organization. 1923. Joshna Bernhardt. H(b) 1-1.
Building Research —. Sand-lime and other concrete bricks.  1921. H. O. Weller.  H(b) 1-2.
Coal Grading Board. Indian —. A publication containing list of graded coals, copies of the Act and Rules and other information. 1928. <b>H(b) 1-3.</b>
Conciliation and Arbitration — Voluntary. 2nd Report on rules of — —and Joint Committees. 1910. H(b) 1-4.
Empire Marketing —— (latest). H(b) 1-8.
Food Investigation —. Design of Railway wagons for carriage of perishable foods. 1919. Special Report No. 1. <b>H(b) 1-5</b> .
Indian Munitions —. Industrial hand book. 1919. G(d) 4.
Indian Tariff ———
A Factor in India's progress (Being the evidence before the —— as to the effect of cheap steel on the future of com- mercial progress in India). 1923. G. Pilcher and R. W. Smyth. G(d) 12.
Evidence recorded during enquiry reg. certain Railway materials made of steel. 1931. H(b) 1-7b.
Report and written evidence recorded during enquiry on the salt industry. 1930. 2 volumes. H(b) 1-7.
Report on the removal of the revenue duty on pig iron including the evidence recorded during the enquiry. 1930.
H(b) 1-7a.
Railway Conciliation —. Report to the Board of Trade upon establishment and working of the —. 1909. H(b) 1-6.
Bureau(s)—
American Railway Educational —— publications. See Secn. Y(a).
Railway Economics —.
Freight rates on export wheat. A study of the economic effect of reductions in ——. 1930. H(b) 2-1.
Railway operations. Annual Reviews of ——. Railway industry. Economic situation in ——.  H(b) 2-1a.  H(b) 2-1b.
Capital Expenditure and purchases in the 1929. H(b) 2-1c.
Railway situation. Economic factors in the 1926.
Transportation. Economic phases of ——. 1927. H(b) 2-1d.
Transportation (inland waterways). Economic survey of -
in the United States. 1930.  Ton Mile Production Research ——. Freight train economics.  Means of accelerating freight trains B. H. Mann. 1929.  H(b) 2-2.
•

## SECTION H(b).—BOARDS, BUREAUS AND CHAMBERS -concld.

Chamber(s)—
Bengal — of Commerce. Annual reports of the Committee of the — (latest—in 3 vols.). <b>H(b) 3-1.</b>
Bombay — of Commerce. Annual Reports of the Committee of the — (latest). H(b) 3-2.
Burma Indian — of Commerce. Reports of the Committee of the —— (latest). <b>H(b) 3-3.</b>
Calcutta Indian — of Commerce. Annual reports of the Committee — (latest). H(b) 3-5.
Calieut — of Commerce. Report of the — (latest). H(b) 3-6.
Federation of Indian — of Commerce and Industry. Proceedings of the —— (latest). H(b) 3-7.
Karachi Buyers and Shippers — Annual Report of the (latest).
Karachi — of Commerce. Annual Reports of the Committee of the — (latest). H(b) 3-8.
Madras — of Commerce. Proceedings of the — (latest). H(b) 3-12.
Merchants' —. Indian —. Report of the Committee of the —— (latest). H(b) 3-9.
Punjab — of Commerce. Annual Report of the Committee H(b) 3-10.
Upper India — of Commerce. Annual Report of the — (latest).  H(b) 3-11.

## SECTION H(c).—COMMITTEES.

#### Acworth Committee-

Report of the — on the administration and working of Indian Railways. Vols. I, II, III and IV. 1920-21. H(c) 1.
Report on Railway questions in Southern Rhodesia. H(c) 1-1.
Auxiliary and Territorial Forces Committee. Report of the Vols. I & II. 1925.
Boiler Laws Committee. Report of the ——. 1920-21. H(c) 3.
Bridge Stress Committee. Report of the ——. 1928. H(c) 4.
Bridge Standards Committee. Reports of the —— from No. 1.  H(c) 4-1.
Carriage and Wagon Standards Committee. Reports of the —— from No. 1. H(c) 31.
Central Committee. Indian — Report of the -—. 1929. H(c) 5.
Chemical Service Committee. Report of the ——. 1920. H(c) 6.
Cinematograph Committee. Indian. Report of the ——. 1927-28. H(c) 7.
Coal Dust Committee. First Report of the —. 1924. H(c) 8.
Coal Dust in Mines in India. Dangers arising out from - Second
Coal Dust in Mines in India. Dangers arising out from —. Second report of the Committee appointed to investigate —. 1929.
H(c) 8-1.
Cotton Committee, Indian. Report of the ——. Vols. I to VI. 1919. H(c) 9.
Departmental Committee on Railway Agreements and Amalgamations Report of the ——. 1910. H(c) 10.
Departmental Committee on Railway Agreements. Report and Appendix, 1921. Ministry of Transport. H(c) 10-1.
Domiciles Community, Calcutta. Report of Enquiry Committee. 1918-19. 1920. H(c) 11.
Economic Enquiry Committee, Indian. Report of the —. 1925.
H(c) 12.  Economic Committee. Imperial ——. Reports of—.
14th Report. A survey of trade in rubber manufactured goods.
1930. H survey of trade in Tubber manufactured goods.
16th Report. Hides and skins. 1930. <b>H(c) 12-1A.</b>
17th Report. Progress Report. 1930. <b>H(c) 12-1B</b> .
18th Report. Tea. 1931. <b>H(c) 12-1C</b> .
19th Report. Coffec. 1931. <b>H(c)</b> 12-1D.
Electrification Main Line Railway. Great Britain. Report of the Com-
mittee on ——. 1931. Ministry of Transport. H(c) 28.  Engineering Committee on a Lower Ganges Bridge. Report of the
1908. E(a) 19.

## SECTION X(c).—COMMITTEES—contd.

Engineering Standards Committee. British Engineering Standards Coded Lists by the ——.
Vol. I—Iron and Steel Tram rails. H(c) 13.
Vol. II—Rails, pipe flanges, serew and pipe threads and port- land cement. <b>H(c)</b> 13-A.
Vol. III—Telegraph materials, electrical machinery, tramway poles and trolley groove and wire and copper conductors.  H(c) 13-B.
Vol. IV—Material for construction of rolling stock and locomotives for Indian Railways.  H(c) 13-C.
Engineering Standards Committee. Report on work done. 1st to 4th and 8th Reports for the years 1905, 06, 08, 09 and 1912.
H(0) 13-1.
Gas Cylinders Research Committee. First Report of the —. 1921.  H(c) 14.
Jails Committee. Report of the Indian —. 1919-20. Vol. I, Report and Appendices. H(c) 15.
Light Railway (Investigation) Committee. Report and Appx. 1921.  Ministry of Transport. H(c) 36.
Locomotive and Carriage Superintendents' Committee. Report on Standard Locomotives for Indian Railways as designed by the Engineering Standards Committee of Great Britain. H(c) 16.
Locomotive Standards Committee. Minutes of meetings of the — from No. 9. H(c) 16-1.
Mackey's Committee Report on Indian Railway finance and administration (E. I. R.). 1908. <b>H(c)</b> 17.
Malaria Committee. Proceedings of the 3rd meeting of the General ————————————————————————————————————
Measures and Weights Committee. Report of the —— 1914.  H(c) 19.
Mercantile Marine Committee. Minutes of the Indian —. Evidence recorded by the —. 1924. H(c) 20.
National Expenditure Committee. 3rd Report of the —. 1922. H(c) 21.
North-West Frontier Province, Subjects Committee. Report of the ——. 1931. H(c) 30.
Privy Council Committee. Scientific and Industrial Research. Report of the —— for the year 1920-21. Report of H(c) 22.
Rates Advisory Committee. Merchandise classification. 1923.  See Secn. S(a).
Reforms Committee. Burma —. Report and Appendices. 1922. H(c) 23.
Reforms Enquiry Committee. Report and Appendices of the —. 1924. (Report and Appendices 5 and 6 only.) H(c) 23-1.

## SECTION H(c).—COMMITTEES—concid.

Road Development Committee. Report of the Indian ————————————————————————————————————	928. <b>H(c) 29</b> .
Shipping Committee. Imperial —. Report on the work of Jany. 1923 to May 1926. 1926.	the ——— H(c) 24.
Signal and Interlocking Standards Committee. Reports of the - No. 1.	from <b>H(c) 32</b> .
Standards and Specifications for Indian Railways. Progs. of t ings of the Standing Committee on —— from No. 1.	he mect- <b>H(c) 33</b>
Statistics on Indian Railways. Report of the Committee for sion of —. 1923.	the revi- <b>H(c) 25</b> .
Survey Committee. Indian —. Report of the —. 1905. Report and Vol. II—Appendices.	Vol. I— H(c) 26.
Textile Factories Labour Committee. Report on an enquiry conditions of factory labour in India. 1907.	into the H(c) 34.
Track Standards Committee. Reports of the —— from No. 1.	H(c) 35.
Workshop Committee. State Railway Report. 1926.	H(c) 27

सम्बंध उधत

## SECTION H(d).—COMMISSIONS.

Australia, Commonwealth of ——. Uniform Railway Gauge. Report of the Royal Commission, Estimate, etc., on ——. 1922. H(d) 1
Coal Industry. Royal Commission on the —. 1925. Report with minutes of cvidence and appendices. Vol. I. 1926. H(d) 2
Currency and Finance. Indian ——. Report of the Royal Commission on ——. Vol. I. 1926. H(d) 3
Decentralization. Royal Commission upon ——. Reports of the —— in India.
Vol. I.
Vol. II-Minutes of evidence upon decentralization in Madras
Vol. III-Minutes of evidence upon decentralization in Burma
Vol. IV-Minutes of evidence upon decentralization in Bengal
Vol. V—Minutes of evidence upon decentralization in E. Benga and Assam.
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Vol. VII—Minutes of evidence upon decentralization in U. P
Vol. VIII—Minutes of evidence upon decentralization in Bombay.
Vol. IX—Minutes of evidence upon decentralization in NW F. P. and Punjab.
Vol. X-Minutes of evidence upon decentralization of witnesse
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Factory Labour. Indian — Commission. Report of the —. 1908 H(d) 20
Fiscal Commission—
Indian —. Report of the —— 1921-22. H(d) 5
Minutes of the evidence recorded by the Indian ——, Vols. I, II and III. 1923. H(d) 5-1
Historical Records Commission. Proceedings of meetings of the Indian
—. Vols. III, IV and V. 1921. <b>H(d)</b> 6
Industrial Commission. Indian —— Report and Appx. (2 vols.). <b>H(d)</b> 7
Interstate Commerce Commission. U. S. A.—
Annual Reports of the —— for 1900, 02, 06 to 1923. <b>H(d) 8</b>
Intercorporate relationship of railways in U. S. A. 1906.
H(d) 8-1
Past and future of —. 1902. B. H. Meyer. H(d) 8-2
Bureau of Locomotive Inspection. Annual Reports for 1923 and 1924.
Rules of practice before the commission in proceedings under the
Interstate Commerce Act with approved forms. 1927.
H(d) 8-4

## SECTION H(d).—COMMISSIONS—contd.

Irrigation Commission. Report of the Indian —— 1901-03.
Vol. I—General.
Vol. II—Provincial.
Vol. III—Maps
Vol. IV—Appendices. H(d) 9.
Labour. Royal Commission on —— in India. Report of the 1931.  H(d) 19.
Evidence Vol. I—Bombay Presidency including Sind. Part I written and Part 2 oral. 1930. <b>H(d) 19-1.</b>
Evidence Vol. II—Punjab, Delhi and Ajmer-Merwara. Parts I and II. 1930. H(d) 19-2.
Evidence Vol. III—Central Provinces and United Provinces. Parts I and II. 1930. H(d) 19-3.
Evidence Vol. IV—Bihar and Orissa with coalfields. Parts I and II. 1930. H(d) 19-4.
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Evidence Vol. XI—Supplementary. <b>H(d) 19-11.</b>
London Cross River Traffic. Royal Commission on —— Report of the ——. 1926. H(d) 10.
Mining Commission. Minutes of progs. and evidence of State
Union of South Africa. 1916-17.
Majority and Minority Reports.
Final Majority and Minority Reports. H(d) 11.
New South Wales Railway and Tramway Service. Royal Commission of Enquiry. Report of the —— together with copy of commission, evidence and appendices. 1924. H(d) 12.
New Zealand Railway Service. Royal Commission of Enquiry into Report of the —. 1925. H(d) 14.
Railway and Canal Commission-
Annual Report of the ——. (Latest copy.) H(d) 17. Rules. 1924. J(c) 15.

## SECTION H(d).—COMMISSIONS—concld.

Reparation	Commission—
------------	-------------

Reports of the Commissioner of

- (1) the German Railways,
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- (3) Controlled Revenue and of the
- (4) Trustee for German Industrial Debentures. 1930.

H(d) 15.

Reports of the Expert Commission appointed by the ----. 1924.

H(d) 15-1.

Simon Commission. Report of the Statutory Commission.

Vol. 1—Survey.

Vol. 2-Recommendations. 1930.

H(d) 18.

South Africa. Union of —. Report of the Railway Commission of Enquiry. 1914. H(d) 13.

Transport. Co-ordination and development of ---. Final Report by the Royal Commission on Transport. 1931. H(d) 16.



#### SECTION H(g).—CONFERENCES.

British Empire Forestry Conference. See under Section (L).

Colonial Office Conference. Summary of proceedings and appendix in two volumes. 1930.

H(g) 1.

Engineering Conference, Simla. 1913. Vols. I, II, III, IV and V. H(g) 2.

Industrial Conference, India. Report of the Committee of

IV Report. Held at Madras, 1908.

V Report. Held at Lahore, 1909.

VII Report. Held at Calcutta, 1911.

VIII Report. Held at Bangalore, 1912.

IX Report. Held at Karachi, 1913.

X Report. Held at Madras, 1914.

XII Report. Held at Lucknow, 1916.

H(g) 3.

International Economic Conference. Report on the standard of living of workers in various countries. 1927. Y(b) 7-2.

Round Table Conference, India. Progs. of the Sub-Committee, Vol. I (Sub-Committee No. 1—Federal Structure) 1931. H(g) 6.

#### Sanitary Conference-

Proceedings of the 2nd all-India — held at Madras. 1912. Vols. I—General, III—Research and IV—Engineering. H(g) 4. Proceedings of the 3rd all-India — held at Lucknow. 1914. Vols.

Proceedings of the 3rd all-India — held at Lucknow. 1914. Vols. II, III, IV and V. H(g) 4-1.

#### World Power Conference—

Transaction of the Fuel Conference, Volumes I to II and index.

 $\mathbf{H}(\mathbf{g})$  5.

Transaction of the ——. Sectional meeting, Basle, 1926. Vols. I and II. H(g) 5-1.

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#### SECTION H(k).—CONGRESS.

- Bombay Engineering Congress. Minutes of proceedings. Vol. III-1917 and Vol. 17-A, 1929. H(k) 1.
- Industrial and Commercial Congress. Report of the India —— held at Madras, 1928. H(k) 2.
- International Engineering Congress held at Glasgow during September 1901.
  - Report of the proceedings and abstracts of the papers read, with a preface by Robert Caira, Chairman of the Executive Committee. 1902.
  - Proceedings of Section I on Railways. 1902.
  - Proceedings of Section II on Waterways and Maritime works.—1902. H(k) 3-1.
- International Railwaymen's Congress. London. 1920. I. L. O. Y(b) 6.
- Motor Transport Congress, World ——. 1927. Complete report of proceedings on November 14th, 15th and 16th, 1917. H(k) 4.

सम्बंध नयते

American Institute of Electrical Engineers' Committee on High Tension Power Transmission. 1905. C(d) 14.
Civil Engineers, Institution of—
Abstract of papers in scientific transactions and periodical. New series. No. 1, 1919. <b>H(m) 1A.</b>
Catalogue of Library, 1895.  Vol. IA to G,  Vol. IIH to Pa,  Vol. IIIPe to End.  Authors. 1911-15.  H(m) 1B.
Committee appointed to investigate the deterioration of structures
of timber, metal and concrete exposed to action of sea water.  1st report. 1920. P. M. Crosthwaite and G. R. Redgrave.  H(m) 1C.
Excerpt Minutes of Proceedings of the
Gauges of Indian Railways. 1906. F. R. Upcott. H(m) 1D 1. Gauges of Indian Railways. 1922. F. R. G. Dawson.
Gauges of Indian Railways. 1922. F. R. G. Dawson.  H(m) 1D-1a.
Impact on Railway Bridges, with particular reference to the
report of the Bridge Stress Committee. 1929. C. Gribble. H(m) 1D-2.
Impact co-officients for railway bridges. 1916. C. W. Anderson. H(m) 1D-2a.
New Zealand and Ceylon Govt, Railways. Papers on. 1880. J. R. Mosse. <b>H(m)</b> 1D-3.
Rail Steels for Electric Railway. 1914. Willox.
Rail-corrugation and its causes. 1914. S. P. W. D. Sellon. J. H(m) 1D-4.
Stations. Design of wayside — for single line of railway. 1907. F. G. R. Dawson. H(m) 1D-5.
Train control in relation to increased weight and speed combined with reduced headway. A. W. Rendel. 1922. And trials in connection with the application of vaccum brake for long freight trains. 1922. H. Fowler. H(m) 1D-£
Train Resistance. The predetermination of —. 1908. C. A. C Wilson. H(m) 1D-6
Timber conversion by circular saws and by band saws in the pine growing districts of the U.S.A. 1887. L.H. Ransome.  H(m) 1D-7
Civil Engineers, Institution of—
Lectures—
Aircraft. Constructional Engineering of ——. 1925. R. K. Pierson. H(m) 1E-1.
Electric Power in British Isles. Development of the generation and distribution of ——. 1929. Λ. Page. <b>H(m) 1E-2.</b>

_	ngineers, Institution of—contd.
Lou	Engines, Heat ——. Testing of. 1927. H. B. J. Burstal.
	H(m) 1E-3
	Handling goods in ports and docks. Appliances for —. 1928 H. A. Reed. H(m) 1E-6
	Harbour and Dock Engineering. Development of —. 1920 Vernon Harcourt Lecture. Sir C. R. S. Kirkpatrick.
	H(m) 1E-6
	Locomotive and Bridge oscillation. 1930. W. E. Dalby. <b>H(m)-1E-6</b>
	Mechanics to Engineering Practice. Application of the Science of, 1899. A. Rar. H(m) 1E-
	of 1899. A. Rar. H(m) 1E- Road and rail transit. Some aspects of Metropolitan. 1919 J. H. Gordon. H(m) 1E-
	Structures in Sea Water. Work of the committee on the determination of —. 1930. S. M. Kickson. H(m) 1E-1
ist	t of Members. (Latest,) H(m) 1E-I
in	date). (Volume I to date). H(m) 16
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	Filtration works for supplying the town of Alexandria with potable water. 1907. H. R. C. Bagden. H(m) 13
	No. 1.—Deflection of suspension bridges. 1923. J. W. Spiller <b>H(m) 1J-1</b>
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H(m) 1J-9.

### Civil E

l Engineers, Institution of—contd.
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No. 10Principle of virtual velocities and its application to the
theory of elastic structures. 1923. E. H. Lamb.
H(m) 1J-10.
No. 11.—Analytical determination of the voltage-steps in the
starter of a single phase series motor, 1923, S. P.
Smith and M. G. Say. H(m) 1J-11.
No. 12.—Stresses in a circular ring. 1923. L. N. G. Filou.
H(m) 1J-12.
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C. J. Gyde. <b>H(m) 1J-15</b> .
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of India. 1924. F. C. Temple. H(m) 1J-16.
No. 17.—Flying stations: construction and maintenance. 1924.
H. A. Lewis Dale. H(m) 1J-17.
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H(m) 1J-18:
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Walmsley. <b>H(m) 1J-19</b> .
No. 20.—Permeability of concrete. 1924. H. C. Toy.
H(m) 1J-20.
No. 21.—Cement Mortars : relation of sand grading, water absorp-
tion, and compressive strength. 1924. H. S. Smith
and C. D. Crosthwaite. H(m) 1J-21.
No. 22.—Rotary converters for railway use. 1924. R. W.
Mountain. <b>H(m) 1J-22</b> .
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Howland. <b>H</b> (m) 1J-23.
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Naylor. <b>H(m) 1J-24</b> .
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Grinsby. 1925. J. W. McLaren. H(m) 1J-25.
No. 26.—Penang Hills railways. 1925. A. R. Johnson.
H(m) 1J-26
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Swan. <b>H(m) 1J-27</b> .
No. 28.—Strength of struts. 1925. A. Robertson.
打/m\ 1.7.98

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Gosport. 1925. C. H. Cruttwell.

#### Civil Engineers, Institution of-contd.

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	India. 1925. S. A. S. Bunting.	H(m) 1J-30.
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- No. 35.—Sudan Government Railways and Steamers. 1926. F. G. A. Pinckney. H(m) 1J-35.
- No. 36.—Whirling and vibrating speeds of loaded and unloaded shafts. 196. T. M. Naylor. H(m) 1J-36.
- No. 37.—Serew pile mooring berths. M. A. Muirden. H(m) 1J-37.
- No. 38.—Construction of a breakwater head at Madras-1926. C. R. White.
- No. 39.—Head for the new North Arm Sheltering the Reformed Harbour Entrance. 1926. F. J. E. Spring.

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- No. 40.—Methods of symmetrical co-ordinates in the theory of polyphase circuits. 1926. R. Hague. **H(m) 1J-40**.
- No. 41.—Maintenance dredging in Bombay Harbour and docks, and upkeep of the navigational lighting of the port. 1926. E. J. Everatt. **H(m) 1J-41.**
- No. 42.—Some properties of mild steel, with special reference to its behaviour at high temperatures. 1926. E. J. Rang. H(m) 1J-42.
- No. 43.—Subaqueous tunneling in the compressed air, with reference to the barking power station cable tunnel under the river Thames. 1927. D. S. Matheson. **H(m)** 1J-48.
- No. 44.—A new theory of bending. 1927. A. C. Vivian. **H(m) 1J-44**.
- No. 45.—Poole waterworks, 1927. H. R. Lintern. **H(m) 1J-45.**
- No. 46.—Characteristic points. 1927. E. H. Salmon. H(m) 1J-46.
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#### Civil Engineers, Institution of-coutd.

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  H(m) 1J-48
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  H(m) 1J-52.
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  1928. G. Parker. **H(m) 1J-57**.
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  H(m) 1J-60.
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  A. O. Wheeler Day Pinson.

  H(m) 1J-61.
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## Civil Engineers, Institution of-contd.

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No. 71.—Problems in the theory of river engineering. 1929. <b>H(m) 1J-7L</b>
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No. 74.—Oscillations of pressure in pipe lines during closure. 1929. E. Parry.  H(m) 1J-74
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No. 80.—Some deflection problems. 1929. C. H. Lobban. H(m) 1J-80.
No. 82.—Adjustments for temperature camber and deflection, and procedure for setting out during erection of the steel arch bridge across the Reond Nullah at Mile 59—25 or the Kangra Valley Railway, India. 1929. W. H. Gelson. H(m) 1J-82.
No. 83.—Effective width of a plate supported by a beam. 1929. A. B. Miller.  H(m) 1J-83.
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H(m) 1J-94.

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- No. 97.—River Rother improvement works, 1930. F. M. G. Du-Plat-Taylor.

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- No. 99.—Effect of surface waves on the discharge over weirs.
  1930. A. H. Gibson.

  H(m) 1J-99.
- No. 100.—Conservancy works on the Liao River, North China.
  1930. P. N. Fawcett.

  H(m) 1J-100.
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Supplemental Charters, Bye laws and Regulations. 1923.  H(m) 1-L
Transactions
Brick Arch Roofs. 1917. E. W. Stoney. H(m) 1-M. Experiments on the strength of thin brick arch ribs. E. W. Stoney. H(m) 1M-1.
Electrical Engineers. Institution of—
Electrical traction on steam railways in Italy. Excerpt Minutes of pros. 1902. C. A. Carus Wilson. H(m) 2.
Telegraphy. Speeding up the telegraphs. 1925. D. Murray.
H(m) 2-1.
Engineers (India), Institution of—
Constitution of —. H(m) 3.
Journals of the —— from 1921 except 1928. H(m) 3-1.
List of Members (latest). H(m) 3-2.
Papers—
Calcutta. The congestion of A critical analysis. The scope for tube and suburban cleetric railways. T. A. F. Stone.
H(m) 3-3.
Light Railways. Their economics in India. F. G. Royal Dawson.
H(m) 3-3a.
Imperial Institute of the U. K., Colonies and India. Technical reports and scientific papers. 1903. W. R. Dunstan. H(m) 4.
Mechanical Engineers, Institution of—
Excerpt Minutes of pros.—
Capacity of Railway wagons as affecting cost of transport.
1900. J. D. Twinberrow. <b>H(m)</b> 5 A.
Electric Locomotives. A method of classifying, analysing, and comparing their characteristics. 1926. T. A. F. Stone.
H(m) 5A·1.
Locomotives. Standardization of —— in India. 1910. C. Hitchcock. H(m) 5A-2.

General Index to the proceedings of the —— for 1847-73, 1874-84, 1885-1900, 1901-10, and 1911-1920. H(m) 5-B.

Mechanical Engineers, Institution of—contd.

List of Members. (Latest issue.)	H(m) 5-B.
Proceedings of the ——from 1847.	H(m) 5-D.
Subject index (brief) of papers published in the pr	oceedings of
the —— from 1847 to December 1930.	H(m) 5-E.
Permanent Way Inspectors. Institution of — Proceed July 1903.	ings 1887 to <b>H(m) 6</b> .
Permanent Way Institute of India. Journals of the ——. VI for the years 1907-08 to 1911-1912.	Vols. Nos. I— H(m) 7
Permanent Way Institution. Lecture on Indian Railways Trunk line traffic. 1914. B. Leslic.	s. Track for <b>H(m) 8</b> .
Railway Signal Engineers, Institution of—	TT ( \ 0
Proceedings, of the — 1922.	H(m) 9.
Proceedings of the —, Part I, February to August 19 September 1926 to January 1927; Part III September 1928, with Library catalogue and list of members.	nber 1927 to
Royal Engineers' Institute—	
Journal of the —. 1925 and from 1931.	H(m) 10.
Professional papers of the Corps of Royal Engineers. 1900 to 1904.	Vols. 26-30 H(m) 10-1.

सम्बंध उपते

## SECTION H(p).—SOCIETIES.

Proceedings of the —— from 1899 to 1922 and 1926 to 1932.

American Society of Civil Engineers-

Tentative standards. 1929 and 1930.

H(p) 1-1.
Transactions of the —— from 1889. Vols. 41—67 and from 1920 to 1932. <b>H(p) 1-2</b> .
Transactions of the —— (Engg. papers). Inclines. Abt. System of Railway for steep ——. 1886. W. W. Evans.  H(p) 1-2a.
Stresses in Railroad track. 3rd and 4th reports of the Special Committee to report on —— Reprint from Vols. Nos. 86 and 88. 1923 and 1925. H(p) 1-2b.
American Society of Mechanical Engineers—
Boiler Construction Code. 1927.
Boiler Construction Code. Rules for the construction of Boilers of Locomotives. 1926. H(p) 2-1a.
Boiler Construction Code. Rules for the construction of unfired pressure vessels. 1927. H(p) 2-1b.
Engineering papers
Stresses in Locomotive frames. 1922. R. Eksergian.
H(p) 2-2a.
Trucks on curves. Static adjustment of —, 1920. R. Eksergian. H(p) 2-2b.
Record and index. 1927. 4344 343 H(p) 2-3.
Transactions of the —— from 1923 to 1931. H(p) 2-4.
American Society of Testing Materials—
Standards. Parts I and II. 1927, 1930 (and books of supplement standards for 1928, 1929, 1931).  H(p) 3.

L286RB

H(p) 3-1.

# SECTION H(s).—LEAGUE OF NATIONS (Other than International Labour Office).

League of Nations—	
Communications and Transit. 1924.	H(s) 1.
Conventions and Recommendations. Introduction and comple of —— and adopted. Barcelona Conference. 1921.	te text
	H(s) 2.
Court of International Justice. Permanent 1923.	
1	H(s) 3.
Covenant of the ——. 1924.	H(s) 4.
Economic Conference. World — Final Report. 1927.	(s) 5.
( 8)	1929. <b>H(s)</b> 6.
Regime of International Railways and of the Recommend relating to ports placed under an international regime. G 1921.	
Statistical Year Book. International —. 1927.	H(s) 8.
Transit. Convention on freedom of — Reports and texts reto —. Geneva. 1921. Barcelona Conference.	elating H(s) 9.
Waterways. Convention on the regime of navigable — a the declaration recognising the right to a flag of State l no sea coast. Geneva. Barcelona Conference. 1921.	ind to naving
H	(s) 10.
स्वापन नेपूर्व	

## SECTION J(a).—ATLASES AND MAPS.

British Isles. Group Railway Map of the —— Bartholomew.

J(a) 1.

Chamber of Commerce Atlas. 1925. G. H. Phillip and T. S. Shelduke.

J(a) 2.

Commerce of the World Atlas. 1907. J. G. Bartholomew.

J(a) 3.

Crop Atlas of India. 1923.

States in India. Memoranda on Native —— Volume II-Maps only.

1909.

J(s) 2-2.

Times Atlas. 1900 and 1922.

J(a) 5.



#### SECTION J(b).-CALENDARS AND PROSPECTUSES.

Benares Hindu University. Prospectus of the Engineering College of the — (Latest).

Dehra Dun Railway Staff College. Calendar of the — (Latest).

J.(b) 4.

Madras Engineering College. Calendar of the — (Latest).

Roorkee Engineering College. Calendar of the — (Latest).

J(b) 3.



# SECTION J(c).—CODES, MANUALS RULES AND REGULATIONS (other than legal).

Arboriculture Manuals.	See Section (L).
Audit and Account Code. Railway Vol. II. 1	930. <b>J(c) 1</b> .
Block working on double and quadruple lines by S style "L Block Instruments". Rules for —— I 1928.	Sykes three position M. & S. M. Railway. J(c) 19.
Boiler Construction Code. 1927. A. S. M. E.	B(b) 1.
Clearing House. Regulations of the Railway	1926. J(c) 2.
Factory Rules—	
Bengal 1923.	J(c) 3-1.
Punjab 1923.	J(c) 3-2.
Forest Engineering Manual. India.	See Section (L).
French Railways. Staff regulations, 1920. 1. L. C	Y(b) 8.
Fuel Manual. E. B. Railway. 1928.	J(c) 4.
Fundamental and Supplementary Rules. P. and T. ed up to 31st August 1920, 1931.	Compilation correct- J(c) 21.
Indian Timbers. A manual of —— 1902. J. S. Ga	mbies. <b>L 14-7</b> .
Indian Wood Technology. An elementary manual o Brown.	n
Interstate Commerce Commission. Rules of practi	ice. 1927.
	H(d)-8-4.
Killick's Argentine Railway. Manual of the —	
Lightning Conductors. Erection and testing of for the guidance of public works officers in the	
	J(c) 6.
London-Brighton and South Coast Railway. Rules the guidance of the officers and servants. 1917	and regulations for J(c) 20.
N. W. Railway. Organization Manual 1925.	J(c) 7.
Provident Fund and Gratuity, Rules. State Railwaway Board.	ay — . 1929. Rail- J(c) 8.
Railways—	
Indian States. General Rules for all open lines by the Government. 1929. Railway Boar	d. <b>J(c) 9.</b>
Rules for the opening of —— for the public ca 1923. Railway Board.	rriage of passengers.  J(c) 10.
Rules for the preparation of —— projects. 19	
Securities—	• (U) II.
Government — Manual. 1919.	J(c) 12.
Investors in Government —. A guide book f	
	J(k) 4.

# SECTION J(c).—CODES, MANUALS RULES AND REGULATIONS (other than legal)—concid.

Servants.	Public ——. A	A collection	n of rule	s and or	ders relating to
their	dismissal, submis	ssion of	appeals w	vearing o	of uniforms, etc.
1918.	G. K. Roy.			_	J(c) 13.

Shipping. British and Foreign ——Lloyd's Register of ——. Rules and regulations for the construction and classification of steel vessels. 1909-10.

J(c) 14.

Statistics. Manual of Railway ---. 1912. G. L. Boag.

G(m) 11-3.

Statutory Rules and Orders. Railway and Canal Commission Rules. 1924. J(c) 15.

#### Traffic Management Manual—

No. 49. Government Regulatory Bodies. Interstate Commerce Commission—organization and administration. 1927. W. M. Daniels.

J(c) 17-1.

No. 52. Railroad freight Rate structures. Principles of rate making. 1928. J. H. Donnell. J(c) 17-2.

Traffic Manual. Metropolitan — 1st Edn. 1922. C. Romer.

J(c) 17-3.

Telegraph Code for licensed telegraph offices. Part II-Technical. 1908.

J(c) 16-1.

Telegraph Manual, Vol. 5, Licensed telegraph office regulations. 1917.

J(c) 16-2.

Telegraphic Traffic Instructions. 2nd edition. 1913.

Uganda Railway Official Tariff Rook containing population.

Uganda Railway Official Tariff Book, containing regulations and tariffs. 1915. S(b) 7.

Vacuum Brake. Automatic —. Introductory manual and catechism on the —. 1911. C. H. Gilbanks, B. B. and C. I. Railway.

J(c) 18.

## SECTION J(d).-DICTIONARIES.

Accountant's Dictionary. Vols. I and II. Pixley.	J(d) 1.
Car Builders Dictionary. 1895. J. C. Wait.	E(d)4-2.
Concise Oxford Dictionary of current English. 1928. Fowler.	
	J(d) 2.
Engineering Dictionary by Spon and Byrne (Civil, Mechanical, I and Naval) in 3 volumes. 1874-81 with supptt.	<b>Ailitar</b> y
Vol. 1A to Con.	
Vol. 2-Con. to Iron.	
Vol. 3-Iron to Zine.	
	J(d).3.
English Hindustani Dictionary. 1884. S. W. Fallon.	J(d) 4.
French and English Languages. A practical Dictionary of the	
1891.	J(d) 5.
German-English and English-German Dictionary. Cassel's New	
	J(d) 6.
German English Dictionary. Bellow's —.  German English French Dictionary (Tolhausen Technologisches V	J(d) 7.
	J(d) 8.
1 3/3 4 3/4 1	J(d) 9.
Mechanics. Dictionary of in 3 volumes. E. H. Knight.	••
	(d) 10.
Merchandise and Storage Notes. Dictionary of — 1928.	
Pitman's Technical Dictionary in seven languages, 1928.	(d) 11.
volumes.	111 4
Vol. 1—A to Dec.	
Vol. 2—Dec to Knu. Vol. 3—Lab to Rib, and E. Slater.	
Vol. 4—Rib to Zon.	
	(d) 12.
	erican
(Vocabulaire Technique des chemins der fer). 1918. Pitma	
	(d) 13.
Signal Dictionary. 1908. Railway Signal Association. E Technological Dictionary in English, French and German.	(d) 24.
	) 141.
A. and L. Tolheusen.	.) T.T.
French German English. ) J(d	) 14-2.
Thesaurus of English, Words and Phrases. 1899. Peter Mark	_
	( <b>d</b> ) 15.
	ditions (d) 16.

## SECTION J(g).—DIRECTORIES.

Engineering Directory of current advertisements in "Engi	neering $''$ . $J(g)$ 1.
(Latest).	n(B) T
Railway Officials. Universal Directory of ——. (Latest).	J(g) 2.
Trackers Indian Dictionary. 1931.	J(g) 3.



## SECTION J(h).—ENCYCLOPEDIAS.

### Encyclopedias-

Britannica. University of Cambridge (in 29 volumes)-

Vol. 1—A to And.	J(h) 1-1.
Vol. 2-And to Aus.	J(h) 1-2
Vol. 3—Aus to Bis.	J(h) 1-3.
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Vol. 23—Ref to Sai.	J(h) 1-23.
Vol. 24—Sai to Shu.	J(h) 1-24.
Vol. 25—Shu to Sub.	J(h) 1-25.
Vol. 26—Sub to Tom.	J(h) 1-26.
Vol. 27—Ton to Ves.	J(h) 1-27.
Vol. 28—Vet to Zym.	J(h) 1-28.
Vol. 29—Index.	J(h) 1-29.
Carbuilders —. 1922 and 1931. R. V. Wright.	E(d) 4·1.
Commercial —. Ports and Cities of the wor	eld (India,
Ceylon, Egypt and Africa) Globe Encyclopedia Com	
Logomotive of Americantt	J(h) 2.
Locomotive — of American practice. 1922, 1925 and 1 Wright.	1930. R. V. <b>E(d) 14.1.</b>
Maintenance of Way 1921. Simmons Boardman	Publishing
Co.	<b>E(d)</b> 16.
Material Handling —. 1921. R. V. Wright.	E(d) 17-1.
	-(u) 11-1.

## SECTION J(k).—GUIDES AND GAZETTEERS.

Commercial Guide to the Forest Economic Products of India. 1912.

R. S Pearson.

R. S Pearson.	L 5.
Darjeeling Mountain Railway. An illustrated guide to Darjeeling.	the Railway and <b>J(k) 1</b> .
Far Eastern Association of Tropical Medicine. Guide Congress of the ——.	to the Seventh <b>J(k) 2</b> .
Imperial Gazetteer of India. 1907-09. Arranged a districts—	alphabetically by
Vols. 1—4—The Indian Empire.	J(k) 3-1 to 4
Vol. 5—Abazai to Arcot.	J(k) 3-5
Vol. 6-Argaon to Bardwan.	J(k) 3-6.
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Vol. 24—Travancore to Zira.	J(k) 3-24.
Vol. 25—Index.	J(k) 3-25.
Vol. 26-Atlas. 1931 edition.	J(k) 3-26.
Investors in Government Securities. A guide book for	<del></del> 1919.
	J(k) 4.
Patentee's Guide. Indian Protection of invention	ns. <b>J(k)</b> 9.
Pitman's Businessman's Guide. A handbook for all eng 4th edition. 1907. J. A. Slater.	gaged in Business. J(k) 10.

## SECTION J(k).—GUIDES AND GAZETTEERS—concld.

Punjab Canal Gazetteer—	
Vol. I-Lower Jhelum Canal. 1921.	J(k) 5-1.
Vol. II—The triple canals. Upper Jhelum canal, Upp Canal and Lower Bari Doab Canal. 1921.	er Chenab J(k) 5-2.
Royal Autombile Club Guide and Handbook. 1927-28.	J(k) 6.
Travellers' Companion—a brief description of places of pilgri important towns in India. Abdur Rasheed—	mage and
Urdu Edition. 1908.	J(k) 7-2.
Hindi Edition. 1907.	J(k) 7-3.
English Edition. 1907.	J(k) 7-1.
Travellers' Guide— Ceylon. Its history, people, commerce, industries and 1924.	resources. J(k) 8-1.
Ceylon, Burma and India. Murray's Handbook for travelle 1924. J. Murray.	ers in ———————————————————————————————————
Japan. A pocket guide to 1925.	J(k) 8-3.
Japan. Imperial Government Railways. 1914.	J(k) 8-3a.
Kandy. A guide to — with maps. 1903. G. J. S. Ske	en. J(k) 8-4.
Kenya and Uganda Railway. 1931.	J(k) 8-8.
Kyoto and Nara. Japanese Government Railways.	J(k) 8-5.
Nikko. Japanese Government Railway.	J(k) 8-6.
Tokyo and Yokohama. Japanese Government Railways	l.
सन्तर्भव जयते	J(k) 8-7.

## SECTION J(m).—HAND, POCKET AND YEAR BOOKS.

Australia, Commonwealth of —. Official Year Book of the —— (Latest). J(m) 1.
Commerce Year Book. 1925. Department of Commerce U. S. A. G(d) 15.
Commercial Information in India. Handbook of ——. 1924. C. W. E. Cotton. G(d) 16.
Electrical Engineers. Electric Light fitting — notes on installation management. 1904. J. W. Urquhart. C(d) 10.
Engineers Year Book and Diary. 1931. J(m) 2.
India, Burma and Ceylon. Murray's Handbook for travellers in  1925. J. Murray. J(k) 8-2.
Indian Insurance Year Book. 1930. Government of India.
J(m) 11.
Indian Year Book. A statistical and historical annual of the Indian Empire with an explanation of the principal topics of the day. Stanley Recd. (Latest).  J(m) 3.
Industrial Handbook. 1919. Indian Munitions Board. G(d) 4.
Investor's India Year Book. 1927-28. J(m) 4.
Karachi Handbook and Directory. 1921-22. J(m) 5.
Railway Year Book. (Latest). J(m) 6.
Records of the Government of India. A handbook to the ———————————————————————————————————
Scientific American Reference Book
Part I-Statistical information. 1913. A. A. Hopkins.
Part II-Scientific information. 1914. A. R. Bond.
J(m) 8-1 & 2.
<b>Bkelton Handbook</b> No. 18 of Beams (broad flange, grey process). 1923. R. A. Skelton Co. <b>J(m) 9.</b>
Stateman's Year book. Statistical and historical annual of the states of the world. 1929.  Statistical and historical annual of the states of J(m) 10.
Statistical Year Book. International ——. 1927. League of Nations.  H(s) 8.
Telegraphy and Telephony. Wireless — Year Book of. 1916.  E(m) 2.

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## SECTION J(p).—LISTS.

Civil List. Combined —— for India. (Latest).	J(p) 1.
Coal Mines. List of —— worked under the Indian Mines Act, in India during the year 1930. 1931.	British J(p) 13.
Government of India. Classified list of officers in the Finance ment, Government of India and in the Department under ministrative control. (Latest).	
Heads of Administration in India and India Office. List of 1923	
	J(p) 3.
	J(p) 4.
Most Exalted Order of the Star of India and of the Most Eminent of the Indian Empire. List of the Members of the ——. 1920	
Posts and Telegraphs. List of officers of the (Latest).	J(p) 6.
Publications. Catalogue of—	
Commercial Library. Department of Commercial Intelligen	ce and (p) 7-1.
Government of India. (Latest).	(p) 7-2.
Home Government (issued by the H. M. Stationery Office, Lo (Latest).	ndon). ( <b>p) 7-3.</b>
India Office Records-Home Miscellaneous series. Samuel (IIII).	Charles <b>(p) 7-4.</b>
N. W. Railway Library.	(p) 7-5.
Scientific Periodicals in the Bombay Presidency. List of Royal Institute of Science, Bombay.	- 1931. (p) 12.
Stations in India. Alphabetical List of Railway ——. I. R. (Latest).	C. A. (p) 8.
Stock Exchange Official Intelligence. 1930.	J(p) 9.
Supply of Articles for the Public Service. List of firms for the 1928.	(p) 10.
Who's Who. (Latest).	p) 11.
Who's Who in Engineering. J(p	) 11-1.

#### SECTION J(s).—OTHER BOOKS OF REFERENCE.

Indian in the Year. (Last 5 years). J(s) 1. States-Memoranda on Indian ---. Vol. I. 1930. J(s) 2-1. Memoranda on Native States in India. Vol. II-Maps. 1909. J(s) 2-2. The Indian —. 1927. J(8) 2-3. Station Work-General. Instruction paper by the Railway Educational Bureau. Y(a) 8F-1. Glossary of terms used in ---. Instruction paper by the Railway Educational Bureau. Y(a) 8F 2. Weight, Exchange. Tables comprising English and Indian weight equivalents. 1907. B. C. Ghosh. J(s) 3.

J(s) 4.

Whitaker's Almanack. (Latest).

#### SECTION K.—ACCIDENTS.

- Ais Gill Fatal Collision. Midland Railway. Report on the occurred on 2nd September 1913, between two passenger trains. 1913. J. W. Pringle. K 1.
- Coke Ovens (Near Pontypridd) Fatal Collision between a passenger train and a mineral train, Taff Vale Railway. Report on the --occurred on the 23rd January. 1911. Lt.-Col. Druitt. K 2.
- Ditton Junction Passenger Train Accident. L. and N. W. Railway. Report on the —— occurred on the 17th September 1912. Lt.-Col. K 3. Yorke.
- Hawes Junction Fatal Collision. Midland Railway. Report on the --occurred on 24th December 1910, between an express passenger train and two light engines. 1911. J. W. Pringle.
- India. Railway accidents reports by the Government Inspectors of Railways of inquiries into accidents which occurred during the half years (from March 1929). Railway Board.
- Legislation and Statistics of Railway Accidents, 1825 to 1924. 1925. H. K 6. R. Wilson.
- Safe Railway Working. A popular treatise on Railway accidents, their cause and prevention with a description of modern appliances and systems. 3rd edition. 1893. C. E. Stretton.
- Sevenoakes Derailment of Passenger Train, Southern Railway. Report on the accident which occurred on the 24th August 1927, near -K 7. 1928. J. W. Pringle.

#### United Kingdom-

Railway Accidents.

Due to coupling and uncoupling railway vehicles. Analysis of — reported to the Board of Trade in 1907. 1909. K 13.

- General Report to the Board of Trade on --- that have occurred during the year 1899.
- Report by the Inspecting Officers of Railways of inquiries into accidents which occurred during the quarter ending 31st March 1924 and subsequent quarters. Ministry of Trans-
- Reports to the Minister of Transport upon the --- during the years 1921, 1923, 1926, 1928, 1930. K 9.

Railway Accidents and Casualties.

- Returns of as reported by the several railway companies in the —— during the years 1912 to 1915 and 1923 to 1927.
- Reports to the Ministry of Transport upon the ---- during the years 1914 to 1919. K 11.
- Summary of --- reported to the Board of Trade by the several railway companies in the --- for March 1900 and from March 1914 to September 1915. (Quarterly).

#### SECTION K .- ACCIDENTS -concld.

Willesden Station Fatal Collision. I. and N. W. Railway. Report on the —— occurred on 5th December 1910. 1911. Lt.-Col. Yorke.

K 16.



## SECTION L.—FORESTRY AND TIMBER INCLUDING RAILWAY SLEEPERS.

Arboriculture Manuals—	
Bengal ——. 1907.	L 1-1.
Bombay Presidency — 1912.	L 1-2.
Burma —. 1907.	L 1-3.
Central Provinces and Berar 1915.	L 1-4.
Eastern Bengal, Assam and Madras Presidency	L 1-5.
Punjab. 1905.	L 1-6.
Punjab 1906. (Urdu edition).	L 1-6.
Forest Administration Reports—	
Assam Province — (Latest).	L 2-1.
Bengal Presidency (Latest).	L 2-2.
Bihar and Orissa Province —. (Latest).	<b>L 2-3</b> .
Bombay Presidency including Sind (Latest).	L 2-4.
Burma ——. (Latest).	L 2-5.
Central Provinces — (2 volumes)—	
Vol. 1—Report.	L 2-6.
Vol. 2—Statements.	L 2-6a.
Coorg ——. (Latest).	L 2-7.
Madras Presidency Vols. I and II. (Latest).	L 2-8.
Mysore State —. (Latest).	L 2-9.
Punjab ——. (Latest).	<b>L 2-10</b> .
United Provinces —. (Latest).	L 2-11.
Forest Bulletins—	
No. 41—Pyinma, Ajhar or Jarul wood. Note on ——— (I Flos Reginae, Retz). 1920. R. S. Pearson.	lagerstroemia L 3-1.
No. 42—Haldu. Notes on —— (Adina cordifolia, Hoo C. E. C. Cox.	k, f.) 1921. L 3-2.
No. 43—Odina Wodier, Roxb. Note on ——. 1921. C.	. E. C. Cox. <b>L 3-3</b> .
No. 44—Cotton Wood. Note on Semal or ——. 1921 Cox.	
No. 45—Forests of the Kumaon Bhabar. Note on the M.—. 1921. E. A. Smythies.	Iiscellaneous L 3-5.
No. 46—Bengal Sal. Rate of growth of ——. (Shor 1st quality. 1921. S. H. Howard.	ea robusta)   <b>L 3-6</b> .
No. 48—Kindal or Hongal. Note on—. (Terminalia W. and A.). 1922. R. S. Pearson.	

## SECTION L.—FORESTRY AND TIMBER INCLUDING RAILWAY SLEEPERS—contd.

No. 49—Thingan. Note on ——. (Hopea odorata, Roxb.) 1922. A. Rodger.  L 3-8.
No. 51—Resin tapping industry in Pinus longifolia. An investigation of certain factors concerning the ——. 1923. II. G. Champion. L. 3-9.
No. 59—Sleepers laid in the various railway systems of India.  Summary of results of treated and untreated experimental brought up to date. 1925. J. H. Warr. L 3-10.
No. 61—Fucalyptus in the plains of North West India. 1925. R. N. Parker. L 3-11.
No. 64—Wood preserving antiseptics. Summary of results of laboratory experiments with different—— (results of 14 years' experiments). 1925. S. Kamesam and J. H. Warr. L 3-12.
No. 65-Bark deductions from logs. Tables for —. 1925. S. H. Howard.
No. 66—Timbers. Common Indian —. A note on the working qualities of some —. 1925. H. E. Kinns. L 3-14.
No. 67—Chir (Pinus longifolia) seed supply. 1925. S. H. Howard.
No. 69—Fir, Himalayan Spruce and silver —. Mechanical and physical properties of —. 1926. L. N. Seaman and C. R. Ranganathan. L 3-16.
No. 70—Sal, An important pest of ——. (Hoplocerambyx spinicornis). 1927. D. J. Atkinson. L. 3-17.
No. 71—Timbers. Trade names of Indian ——. 1929. II. Trotter. L 3-18.
No. 72—Timber Seasoning kilns. Instructions for the operations for the 1929. S. N. Kapoor. L 3-19.
No. 73—Herbarium of the Forest Research Institute. 1931. R. N. Parker. L 3-20.
No. 74—Summary of results of treated experimental sleepers laid in the various Railway systems of India brought upto date. 1931. F. J. Popham.
No. 75—Preservation of Indian timbers—the Open Tank Process. 1931. F. J. Popham. L 3-22.
No. 76—List of plants collected in West Nepal.
Forest(s)—
Department in India. Work of the 1920. L41.
Department in India. Development of the —. 1921. E. P. Stebbing.
Economic products of India. Commercial guide to the. 1912. R. S. Pearson.

## SECTION L.—FORESTRY AND TIMBER INCLUDING RAILWAY SLEEPERS—contd.

Forest(s)—contd.
Engineering for India. A manual of the —. C. G. Rogers Vols.
I, II and III. 1900, 1901, and 1902 respectively.  L.6.
Indian — Statement of conditions in —. 1920. British Empire Forestry Conference London. L7.
India's — Resources. Development of. 1925. Forest Research Institute Dehra Dun. L8.
Products, their manufacture and use. Embracing the principal commercial features in the production, manufacture and utilization of the most important forest products other than lumber, in the United States. 1927. N. C. Brown.
Western Australia — and their development, with plan and illustrations. 1899. J. E. Brown. L11.
Forest Research Institute Dehra Dun— Sleeper woods. Mechanical strength, seasoning properties, treatment of and key to certain Indian —. 1925. L 10-1. Timbers in structural sizes. Tests of Indian. 1926. L 10-2. Timbers. Kiln Seasoning of Indian —. 1926. L 10-3.
Wood grown in India. Mechanical, physical and structural properties of —. 1922. L 10-4.
Indian Forest Records—
Vol. 1II, Part II.—Antiseptic treatment of timber in India with special reference to railway sleepers. 1912. R. S. Pearson. L 12-1.
Vol. IV, Part IV.—Antiseptic treatment of timber. A further note on the—recording results obtained from past experiments. 1918. R. S. Pearson.  L 12-2.
Vol. VII, Part VIII.—Ravine lands in the Etawah District, U. P. Afforestation of ——. 1920. E. A. Smythies. L 12-3.
Vol. VIII, Part I.—Lac and Shellac. Report on ——. 1921. H. A. F. Linsday and C. M. Harlow. L 12-4.
Vol. VIII, Part II.—Regeneration of sal forests. 1921. R. S. Hole. L.12-5.
Vol. VIII, Part III.—Beehole borer of teak. 1921. C. F. C. Beeson. L 12-6.
Vol. VIII, Part IV.—Artificial regeneration in Bengal. 1922. A. K. Glasson, P. T. Russell, E. O. Shebbeare and L. E. S. Teague. L. 12-7.
Vol. IX, Part II.—Chaleidoidea. 1922. J. Waterston. L 12-8.
Vol. IX, Part III.—Oils and fats from seeds of Indian forest trees.

## SECTION L.—FORESTRY AND TIMBER INCLUDING BAILWAY SLEEPERS—contd.

Indian Forest Records—contd.
Vol. IX, Part IV.—Oils. Constituents of some Indian essential——. 1922. J. L. Simonsen and M. G. Rau. L 12-10.
Vol. IX, Part V.—Timbers. Air seasoning of Indian —— and general recommendations as to seasoning methods. 1922. C. V. Sweet. C. F. C. Beeson.  L 12-11.
Vol. IX, Part VIII.—Oils. Constituents of some Indian essential —, 1923. J. L. Simonsen. L 12-12.
Vol. IX, Part IX.—Sleepers from Nepal. Note on the work of extraction of B. G. ——. 1923. J. V. Collier. L 12-13.
Vol. X, Part I.—Indian essential oils. Constituents of some ——. 1923. J. L. Simonsen. L 12-14.
Vol. X, Part II.—Oils and fats from the seeds of Indian forest plants. 1924. L 12-15.
Vol. X, Part III.—Sal yield table for the U. P. 1923. E. A. Smythies and S. H. Howard. L 12-16.
Vol. X, Part VI.—Sal. General volume tables for —— classified by diameter and height. 1924. S. H. Howard. L 12-17.
Vol. X, Part VII.—Indian common timbers. Report on the results of the mechanical and physical tests on certain ——. 1924. L. N. Seaman. L 12-18.
Vol. X, Part IX.—Tanning investigation of some Burmese Detero- carps. 1924. J. A. Pilgrim. L 12-19.
Vol. X, Part XI.—Burma oak and chestnut tans. 1924. J. A. Pilgrim. L 12-20.
Vol. XI, Part I.—Oils. Constituents of some Indian essential —. 1925. J. L. Simonsen. L 12-21.
Vol. XI, Part V—Indian essential oils. Constituents of some ———. 1925. M. G. Rau. L 12.22.
Vol. XI, Part VII.—Teak and Sal. Volume tables for —— for the C. P. 1925. V. K. Maitland. L 12-23.
Vol. XI, Part VIII.—Sal heartwood borer. Economic importance and control of the ——. 1925. C. F. C. Beeson and N. C. Chatterjee. L 12-24.
Vol. XI, Part X.—Assam timbers for railway sleepers. Notes on antiseptic treatment of ——. 1925. J. H. Warr and S. Kamesam. L 12-25.
Vol. XII, Part I.—Sal. Volume and outturn tables for ——. 1925. S. H. Howard. L 12-26.
Vol. XII, Part II.—Indian Cerambycidae I. Cerambycini. Identification of immature stages of —. 1925.  J. C. M. Gardner.  L 12-27.

#### SECTION L.—FORESTRY AND TIMBER INCLUDING RAILWAY SLEEPERS—contd.

Vol. XII, Part III.-Indian common timbers. Results of the

Vol. XII, Part IV.—Sal coppice, clear-filled ——. Yield tables for

Vol. XII, Part V.—Chir. Yield and volume tables for —. 1926. S. H. Howard.

Vol. XII, Part VI.—Deodar. Yield and volume tables for ----.

and C. R. Ranganathan.

\_\_\_\_. 1926. S. II. Howard.

mechanical and physical tests on certain. Report on the ——. 1926. L. N. Seaman

L 12-28.

L 12-30.

Indian Forest Records-contd.

1926. S. H. Howard. L 12-31.
Vol. XII, Part VII.—Niponiidae and cerambycidae. Descriptions of
new species of ——from India. 1926.
J. C. M. Gardner. L 12-32.
Vol. XII, Part VIII.—Indian Cleridae (Coleoptera). 1926. J. B.
The state of the s
Vol. XII, Part IX.—Artificial Regeneration in North India. 1926.
S. H. Howard. L. 12-34.
Vol. XII, Part X.—Indian Coleoptera. Some — 1916. E.
Fleautiaux and J. C. M. Gardner. L 12-35.
Vol. XIII Part I-Indian forest plants. Illustrations of 1927.
R. N. Parker. L 12-36.
Vol. XIII, Part II.—Indian Cerambycidae. Identification of im-
mature stages of — and Indian Beetle
Larvae. Descriptions of three 1927.
J. C. M. Gardner. L 12-37.
Vol. XIII, Part III.—Sal. Commercial volume tables for
(Shorea robusta) in the wet mixed forests
of Bengal Duars. L 12-38.
Vol. XIII, Part IV.—Sundri in the Sundarbans Bengal. Volume
tables for —— (Heritiera Fomes, Buch, Syn.
Heriticra monor, Roxb). 1928. P. N. Suri.
L 12-39.
Vol. XIII, Part V.—Sal Heartwood Borer. Epidemic attacks by the
in the forests of South Mandla Division.
== = = = = = = = = = = = = = = = = = =
Vol. XIII, Part VI.—Indian Colcoptera, Hemiptera and Thysanoptera.
Some new — 1928. R. Koeine, A. Thery,
O. C. Ollenbach, C. J. Drake and D. Moulton.
L 12-41.
Vol. XIII, Part VII.—Slash in chir pine (pinus longifolia) forests.
Causes of formation, its influence and treat-
ment. J. E. C. Turner. 1928. L 12-42.
Vol. XIII, Part VIII.—Blue Pine. Volume and outturn tables for
(Pinus excelsa, Wall.) H. G. Champion,
I. D. Mahendru and P. N. Suri. 1929.
L 12-43,
L 14-20,

## SECTION L.—FORESTRY AND TIMBER INCLUDING RAILWAY SLEEPERS—contd.

Todian	Powert	Doggard	-concld.
MIGINA	rorest	Lecord	8concia.

- Vol. XIII, Part IX.—Commercial timber (katha) and Heartwood volume tables for Khair (Acacia Catechu, Willd.) in North India. 1929. H. G. Champion, I. D. Mahendru and P. N. Suri. L 12-44.
- Vol. XIII, Part X.—Blue Pine. Yield tables for (Pinus excelsa, Wall.). 1929. H. G. Champion, I. D. Mahendru and P. N. Suri. L 12-45.
- Vol. XIV, Part I.—Burma Bamboo pulp survey. 1929. W. Raitt.

  1. 12-48.
- Vol. XIV, Part II.—Denudation of the Punjab hills. 1929. B. O. Coventry. L 12-47.
- Vol. XIV, Part III.—Peridermium complanatum. Investigations on the infestations of ——, Barclay, on the needles, and of Peritermium himalayense n. s., on stem of pinus longifolia, Roxb. 1929. K. D. Bagchee. L 12-48.
- Vol. XIV, Part IV.—Indian Coleoptera (6). Immature stages of —. 1929. J. C. M. Gardner. L 12-49.
- Vol. XIV, Part V to VIII.—Some new Indian Coleoptera and Hemiptera. 1930. K. G. Blair, E. Fleautiaux and J. C. M. Gardner and F. Laing. **L 12-50**.
- Vol. XIV, Parts IX and X.—Genus Xyleborus. 1930. H. Eggers and C. F. C. Beeson. L 12-51.
- Vol. IV, Parts XI to XIV.—Some Indian Coleoptera. 1930. E. Flcautiaux, W. S. Fisher, J. C. M. Gardner.

  L 12-52.
- Vol. XV, Part I.—Thinnings. Classification of —. 1930. L12-53.
- Vol. XV, Part II.—Indian Forestry. A Glossary of technical terms for use in ———. 1930. L 12-54.
- Vol. XV, Part III.—Standards, commercial and heartwood volume tables (Factory working) for Khair in North India. 1931. II. G. Champion and I. D. Mahendru. L 12-54a.
- Vol. XVI, Part I.—Indian forest plants. Illustrations of.
  - Part II.—Dipterocarpus. Five species of —. 1931. R. N. Parker. L 12-55.
- Vol. XVI, Part III.—Indian Colcoptera (8). Immature stages of ——. 1931. J. C. M. Gardner. L 12-56.
- Vol. XVI, Part IV.—Immature stages of Indian Coleoptera (9).
  1931. J. C. M. Gardner.
  L 12-57.
- Vol. XVI, Part V.—Investigations on the seed and seedling of Shorea Robusta. 1931. H. G. Champion and B. D. Paut, L 12-58.

# SECTION L.—FORESTRY AND TIMBER INCLUDING RAILWAY SLEEPERS—concld.

Sleepers. Treated cross — Report on service test of — 1913. Imperial Government Railways of Japan. L 13.
Timber(s)—
Air seasoning and conditioning of —. 1927. Forest Products Research Special Report No. I. F. M. Oliphant.  L 14-1. Antiseptic treatment of —. 1909. S. B. Boulton.  L 14-2.
Beams. Tests of ——. University of Illinois Bulletin No. 41.
Brazil —. Trees of the State of Sao Paulo. A descriptive summary of —. L 14-3.
British Columbia —— for export. Photos illustrating —— and its industry. L 14-4.
Burma chief —. Summary of information on the —. Burma Forest Bulletin No. 22. 1931. L 14.5.
Conversion of — by circular saws and by band saws in the pine growing districts of the United States of America. Excerpt
Minutes of Pros. of I. C. Es. 1887. L. H. Ransome, H(m) 1 D-7.
Indian common commercial — and their uses. 1929. H. Trotter. L 14-6.
Indian — Manual. An account of the growth, distribution and uses of the trees and shrubs of India and Ceylon with descrip-
tions of their wood structure. 1902. J. S. Gamble. L 14-7.
Indigenous —. Report on certain — of India, Burma and the Andamans considered suitable for railway carriage building. 1925. H. G. N. White. L 148.
of the World. their characteristics and uses. 1920. A. L. Howard.
Madras —. 1919. A. W. Lushington. L 14-10.  New South Wales. Suitability of — for railway construction.
New South Wales Government publication.  Preservation. Making big savings in cost of tie renewals. F. J. Angier.  L 14-11.
Angier. L 14-12. Seasoning of Burmese 1924. L. V. Teesdale. L 14-13. Structural Preservation of. 1916. H. F. Wiess. L 14-14.
Structural —, Preservation of 1916. H. F. Wiess, L. 14-14.
Western Australia. Notes regarding — suitable for railways, Engineering works and constructional purposes generally. 1906. N. J. Moore. L 14-15.
Turpentine Orcharding. A new method of —. 1903. C. H. Herty.
<b>L</b> 15.
Dry rot in ——. Forest products Research Bulletin No. 1. 1927. P. Groom. L 16-1.
Preservers' Association. Proceedings of the American —. 1917. L 16-2.
Technology. An elementary Manual of Indian ——. 1925. H. P. Brown.
L286RB 0

### SECTION M.—FUEL (COAL AND OIL).

Vol. 1.— of coals, brown coals and other fuels. 1916. G. Ranke.

Vol. 1I.——— of ores, metallurgical products metal swarf and similar materials, including agglameration. 1918. G. Ranke. M 2.

M 1.

Briquetting-

Coal-

Handbook of ----

Bitmninous ----.

Dry preparation of —— at Illinois Mines. University of Illinois Bulletin No. 88. 1916. E. A. Holbrook. <b>V(a) 1-43</b> .
Storage of —. University of Illinois Circular No. 6. 1918. II. H. Stoek. V(a) 1-51.
Utilization of pyrite occurring in — in Illinois. University (f Illinois Circular No. 5. 1917. E. A. Holbrook. V(a) 1-50.
Coking of —— at low temperature. University of Illinois Bulletin No. 60. 1912. S. W. Parr. V(a) 1-28.
— with special reference to the properties and composition of the products. University of Illinois Bulletin No. 79. 1915. S. W. Parr. V(a) 1-35.
Dust in mines. Dangers arising out from Second Report of the Committee appointed to investigate 1929. <b>H(c) 8-1</b> ,
Essays on —. 1927. R. C. Case. M 3.
Grading Board. Indian a publication containing a list of graded coals, copies of the Act and Rules and other information. 1928.  H(b) 1-3.
Heating homes. —— for. Economical purchase and use of ——with special reference to conditions in Illinois, University of Illinois Circular No. 4. 1917. V(a) 1-49.
Indian — problems. Industries and Labour Bulletin No. 36. 1927. J. C. Brown. V(a) 2-26.
Industry (1925). Report of the Royal Commission on the Vol. I. 1926. H(d) 2.
Ignition temperature of ——. University of Illinois Bulletin No. 128. 1922. R. W. Arms. V(a) 1-63.
Illinois —. Specific gravity studies of —. University of Illinois Bulletin No. 89. 1926. M. L. Nebel. V(a) 1-44.
Mine haulage in Illinois. Study of —. University of Illinois Bulletin No. 132. 1922. H. H. Stock, J. R. Fleming and A. H. Hoskin. V(a) 1-67.
Mines. List of — worked under the Indian Mines Act, in British India during 1930. 1931.

#### SECTION M.—FUEL (COAL AND OIL)—contd.

Coal—contd.
Mining. A text book of —— for the use of Colliery Managers and others. 1917. H. W. Hughes.  M-4
Mining in Illinois. Power studies in ——. University of Illinoi Bulletin No. 144. 1924. Hoskin and Fraser. V(a) 1-78
Occluded gases in ——. University of Illinois Bulletin No. 32 1909. S. W. Parr and P. Barker. V(a) 1-4
Powdered as a fuel. 1918. C. F. Herington. M 5
Production and consumption of in India. 1922.
Pulverised —— systems in America. 1919. L. C. Harvey. M 7
Railway fuel. The coal problem in its relations to the transporta tion and use of coal and coal substitutes by steam railroads 1927. E. McAuliffe. M 8
Railway Locomotives. Economical use of ——. University of Illinois Circular No. 8. 1918. V(a) 1-52
Spontaneous combustion of — with special reference to Bituminous coals of the Illinois type. University of Illinois Bulletin No 46. 1910. S. W. Parr. V(a) 1-15
Storage effects upon the properties of — University of Illinois Bulletin No. 97. S. W. Parr. V(a) 1-48
Sulphur in — beds. Distribution of the forms of. University of Illinois Bulletin No. 125. 1921. H. F. Yaney and T. Fraser V(a) 1-60
Coalfields of India. Memoirs of the Geological Survey of India. Vol XLI, Part I. 1913. V. Ball and R. R. Simpson. G(k) 6
Combustion and Firing. Theory of combustion. Instruction paper by the Railway Educational Bureau. Y(a) 8-J
Fuel—
E. B. Railway — Manual. 1928. <b>J(c) 4</b>
Domestic — statistics on the State managed railways in India Preparation, publication and use of ——, 1930, II. A. Outh- waite, M. 10
Handling of —. Report on the — in U. S. A. 1925. R. C. Case. R(b) 24
International Railway — Association. Proceedings of the ——for the years 1909. 1913 to 1917 and 1927 to 1928. M 11

Liquid and gaseous -- Investigation of the maximum tempera-

ture and pressures attainable in the combustion of — University of Illinois Bulletin No. 139, 1924. G. A. Good-anough and G. T. Felbeck. V(a) 1-73

#### SECTION M .- FUEL (COAL AND OIL) -coneld.

#### Fuel-coneld.

Liquid -- and its apparatus. 1911. W. H. Booth. M 12.

Oil firing. The Cochran book of ---. 1925. W. K. Wilson.

M 13

Oils and their applications. An introductory treatise on the sources, classifications, and production of —— the principles and apparatus involved in their selection, examination, and use with notes on collodial fuels. 1924. H. V. Mitchell. M 14.

Technical data on —. 1928. H. M. Spiers.

M 15.

World Power Conference. Transactions of the Fuel Conference. Vols. I to IV. H(g) 5.

Mining. Subsidence resulting from —. University of Illinois Bulletin No. 91. 1916. L. E. Young and H. H. Stock. V(a) 1—45.



## SECTION N.—ARMY PUBLICATION AND MILITARY SUBJECTS.

Army Orders, India. Compendium of the more important orders Government of India. Army Department, issued from 1st 1914 to 31st December 1917. 1922.	of the August N 1.
Army. Pay, appointment, promotion, and non-effective pay of the Royal Warrant for the —	
	N 2.
Army Tables. Miscellaneous services. Part I. 1921.	N 3-1.
Part II, 1918, with supplement of 1921.	N 3-2.
Section III, corrected upto 1st April 1913.	N 3-3.
Breaches made on Indian Railways, during the Monsoon of 1924. ral Staff Branch Publication.	Gene- N 4.
Field Service Manual—	
Engineers—Minor Units. 1914.	N 5-1.
Indian Non-Silladar Cavalry. 1919.	N 5-2.
Medical services. 1915.	N 5-3,
Surveys. 1916.	N 5-4.
Field Service Regulations. Volume 1. 1923. (Additions for 1926.	India). <b>N 6</b> .
Mobilization Store Table India	
Armoured motor brigade headquarters and battery. 1920.	N 7-1.
Bakery Section, 1920.	N 7-2.
Butchery Section. 1919.	N 7-3.
Field Veterinary Section. 1920.	N 7-4.
	etions) N 7-5.
Supply Depot Section. 1920.	N 7-6.
Supply Tally Section (Provisional) 1920.	N 7-7.
Territorial Force India. Regulations for the 1930.	N 8.
War Establishments India, 1929. 1931—	
Vol. IIINon-divisional units of administrative services a partments.	nd de-
Vol. IV.—Depots for training and supply of personnel and record offices.	Indian N 9.

#### SECTION P.—LIST OF PERIODICALS KEPT IN BOUND VOLUMES.

Engineer (English—weekly) from 1889 to 1930.

Engineering (English—weekly) for the last 30 years.

Indian State Railway Magazine (monthly) from April 1928.

Indian Trade Journal (weekly) from 1931.

International Labour Review (English-monthly) from 1930.

Railway Age (American—weekly) from July 1905 to 1911 and 1914 to date.

Railway Engineer (English—monthly) from 1902 to 1913 and 1915 to date.

Railway Gazette (English—weekly) July 1905 to December 1917 and July 1918 to date.

Railway Mechanical Engineer (American-monthly) from 1925.

Railway Research Service Bulletins (English-monthly) from 1927.



### SECTION Q.—MATHEMATICS AND MECHANICS.

Arithmetic—
Addition and subtraction. Instruction paper by the Railway Educational Bureau. Y(a) 8A-1.
Decimals. Instruction paper by the Railway Educational Bureau. Y(a) 8A-4.
Fractions—parts 1 and 2. Instruction paper by the Railway Educational Bureau. Y(a) 8A-3.
Multiplication and division. Instruction paper by the Railway Educational Bureau. Y(a) 8A-2.
Percentage. Instruction paper by the Railway Educational Burcan. Y(a) 8A-5.
Ratio and proportion. Instruction paper by the Railway Educational Bureau.
Bending. A new theory of —. Engineering paper No. 44, 1927. A. C. Vivian.  H(m) 1J-44.
Calculus—
Differential ——.
An elementary treatise on — containing the theory of plane and curves. 1893. B. Williamson. Q 1-1.
A treatise on the ——. 1901. I. Todhunter. Q 1-1a. Graphical ——.
1896. A. H. Barker and J. Goodman. Q 1-2.
Diagrams for the — of earthwork quantities. A. H. Roberts Q 1-2a.
For Engineers,
1897. J. Perry. Q 1-3.
1914. E. S. Andrews and H. B. Heywood. <b>E(d)</b> 3.
Integral ——.
An elementary treatise on the —— containing applications, 19 plane curves and surfaces and also chapter on the calculus of variations. 1891. B. Williamson. Q 1-4.
A treatise on the —— and its applications. 1895. I. Todhunter. Q 1-4a.
— made easy: being a very simplest introduction to differential cal- culus and the integral calculus, 1919. S. P. Thompson.
Q 1-5. —— of observations. A treatise on numerical mathematics. 1924. E. T. Whittaker and G. Robinson. Q 1-6.
Conic Sections—
A geometrical treatise on with numerous examples, with an
appendix on harmonic ratio, poles and polars, and reciprocation. 1887. W. H. Drew. Q 2-1.
A treatise on plane co-ordinate geometry as applied to the straight line and the, 1888, I. Todhunter. Q 2-2.

Cubes and Cube Root. Instruction paper by the Railway Educational

Bureau.

Y(a) 8A-9.

#### SECTION Q.—MATHEMATICS AND MECHANICS—contd.

- Deflection. Some problems. Engineering paper No. 80. 1929. C. H. Lobban. H(m) 1J-80.
- Defiections of suspension bridges. Engineering paper No. 1, 1923. J. W. Spiller. H(m) 1J-1.
- Drawing. Geometrical —— (mechanical). Instruction paper by the Railway Educational Bureau. Y(a) 8C-2.
- Dynamics. An elementary treatise on ——containing applications to the thermodynamics. 1900. B. Williamson and F. A. Tarleton.
- Earth Pressure. Generalized mathematical determination of from the Wedge theory. Engineering paper No. 90. 1930. M. K. R. Oxley.

  H(m) 1J-90.
- Equations. Differential ---. A short course on. 1916. D. F. Campbell. Q 4.
- Graphic Statics. Elements of —. A text book for Students, Engineers and Architects. 1917. E. II. Sprague. E(d) 25.
- Graphs. An elementary treatise on —. 1918. G. A. Gibson, Q 5.
- Hydraulic Tables for finding the mean velocity and discharge of open channels, according to formulæ of Bazin and Kutter. 2nd edition. 1898. T. Higham.
- Hydraulics. A treatise on —. 5th edition. 1898. M. Merriman. E(e) 8.
- Hydrostatics and elementary Hydrokineties, 1892, G. M. Minchin. E(e) 10.
- Integration. Practical —— for the use of Engineers, etc. 1909. A. S. Percival. Q 6.

### Logarithms-

- Manual of treated in connection with arithmetic, algebra, plane trigonometry, and mensuration, 1890. G. F. Matthews. Q7-1.
- Seven figure —— of numbers from 1 to 10,800 and of sines, cosines, tangents, cotangents to every 10 seconds of the quadrant with a table of proportional parts. 1865. L. Schron. Q 7-2.

#### Mathematics—

- —— for Engineers. Elementary——. 1916. E. H. Sprague. E(d) 18.
- --- for Engineers. Part I including elementary and higher algebra, N. Rose. Q 8.
- Measurements. Catenary . Engineering paper No. 9. 1923. R. Appleyard. H(m) 1J-9.

### SECTION Q.—MATHEMATICS AND MECHANICS—contd.

Mechanics—
Applied
Elementary general introduction to the theory of structures and machines, 1895. J. H. Cotterill. Q 9-1.
Text book on ——. Vols. I and II. 1898. A. Jamieson. Q 9-1a.
applied to Engineering. 1899. J. Goodman. Q 9-1b.
Elementary applied —. 1902. T. Alexander and A. W. Thompson. Q 9-1c.
Internal work (or work of deformation) in clastic bodies and systems in equilibrium including the methods of least work. 1910. I. P. Church. Q 9-2.
Science of —. Application of the —— to Engineering practice.  Address of the Institution of Civil Engineers by A. Barr. 1899.
H(m) 1E-7
Text book on the study of 1875. W. J. M. Rankine and E. F. Bamber. Q 9-3.
Mensuration (plane and figures). Instruction paper by the Railway Educational Bureau. Y(a) 8A-8.
Plate Supported by a Beam. Effective width of a ——. Engineering paper No. 83. 1929. A. B. Miller. H(m) 1J-83.
Points. Characteristic — Engineering paper No. 46. 1927. E. II.
Rules. Slide ——. A practical manual of ——. 1917. C. N. Pickworth. Q 10-2.
Rules and Tables relating to mensuration, engineering, structures, and machines, 1883. W. J. Miller. Q 10-1.
Screw. Archimedean — Experiments on an Engineering paper No. 75. 1929. H. Addison. H(m) 1J-75.
Square and Square Root. Instruction paper by the Railway Educational Bureau. Y(a) 8A-6.
Stresses—
— in a circular ring. Engineering paper No. 12. 1924. L. N. G. Filon. H(m) 1J-12.
— in Locomotive Frames. A. S. M. E. Engineering paper. 1922. R. Eksergian. <b>H(p) 2-2a</b> .
Tables—
— of moments of inertia and squares of redii of gyration; supplemented by others on the ultimate and safe strength of wrought iron columns, safe strength of timber beams, and constants for

readily obtaining the shearing stresses, reactions and bending moments in Swing Bridges. 1824. F. C. Osborn. Q 11-1.

#### SECTION Q.—MATHEMATICS AND MECHANICS—concld.

#### Tables-concld.

- of squares containing the true square of every foot and traction thereof, from 0 to 100 feet also square of each sixtyfourth of an inch up to one foot and two convenient —— of the decimal parts of a foot. 1901. J. L. Hall. Q 11-2.
- of squares, cubes, square roots, cube roots, reciprocals of all integer numbers up to 10,000. 1890. Barlow. Q 11-3.
- of steam. Properties of saturated and superheated steam. 1927.
  Superheater Company New York. Q 11-4.
- Mathematical—consisting of Logarithms of numbers 1 to 10,800. Trigonometrical, nantical and other 1895. J. Pryde. W. and R. Chambers, Ltd. Q 11-5.
- Tacheometry. Simplified —. The merits of a tacheometrical scale for the measurement of vertical angles. Engineering paper No. 32. 1925. S. Blencowe. H(m) 1J-32.
- Trigonometry. Elementary --. Treaties on. 1912. J. B. Lock.

Q 12.

#### Vibrations--

- -- of a simple strut. Transverse -- Engineering paper No. 101. 1930. E. H. Bateman. H(m) 1J-101.
- -- of Frames. Engineering paper No. 47. 1927. R. C. J. Howland,

H(m) 1J-47

सम्बंध उस्ते

## SECTION R(2).—GENERAL MANAGEMENT OF RAILWAYS.

American Railway Management. 1st edition. 1897. H. S. Haines.

R (a	1-1.
American Railways. 1903. E. A. Pratt. R(a	) 1-2.
Argentine Railways Manual, Killick's 1926.	(c) 5.
Australia. State Railway Muddle in - 1912. E. A. Pratt. R	(a) 2.
Austrian State Railways. Report on the reconstruction of the 1923. W. Δeworth, R. Herold and Λ. R. Zimmerman. R	(a) 3.
Brazil. Railway system of No. 617. 1904.	(a) 4.
British Railways. See under Great Britain.	
Central American and West Indies Railways. Trade promotion seri 5. 1925, W. R. Long.	es No. (a) 5.
Electric Railways and Tramways. The management of —. W. R. Bowker.	1904. (f) 10.
England. Railways of See under Great Britain.	
English Railways. See under Great Britain.	
French Railways. 1911. b. Monkswell. R	(a) 6.
Frontier Railways. Ruk to Chaman. 1905. N. W. R. Press. R	(a) 7.
	mmis- <b>d) 15</b> .
Great Britain - सन्त्रभेन नयने	
Railways amalgamation in —	a) 8-1. b) 8-2. c) 8-3. c) 8-4. es and a) 8-5. 1801- a) 8-6. (a) 4. Paish, a) 8-7. E. C. a) 8-8. A. E.
	A. E. a) 8-9.

#### SECTION R(a).—GENERAL MANAGEMENT OF RAILWAYS—contd.

Indian—
Railways. 1921. R. S., C. l'. Tewari.  R(a) 9-4.
1925. Vol. VII of the "India of Today" series. K. V. Iyer.  R(a) 9-5.
Administration and finance. Mackay's Committee Report. 1908. H(c) 17.
Administration and working of —. Acworth Committee Reports. Vols. I, II, III and IV. 1921. <b>H(c) 1</b> .
Development of 1930. N. Sanyal. R(a) 9-6.
Extensions and management and the interest to be taken by Indians in matters relating to railways. 1917. S. C. Ghose.  R(a) 9-1.  Policy. 1894. H. Bell. R(a) 9-2.
Problems. 1924. S. C. Ghose. R(a) 9-3.
State managed—. Organisation of—on the Divisional System. Delegation of power to Agents and Divisional Superintendents and Standardisation of office procedure in their offices. Report and recommendations on—. 1929. A. I. Sleigh.  R(a) 9-7.
International Regime of Railways and Ports. League of Nation Barcelona Conference. 1921. H(s) 7.
Light Railways
—— at Home and Abroad. 1899. W. H. Cole. R(a) 10-1. —— in relation to irrigated lands. 1904. E. O. Mawson and E. R. Me Dermott. R(a) 17-1.
Ways of our —. 1910. E. Harran. R(a) 10-2.
London and N. W. Railway—
Deeds of a Great Railway, being a record of the enterprise and achievements of the during the Great War. 1920. G. R. S. Darroch. G(h) 7.
Reorganisation of —. 1922. A. Watson. R(a) 11.
Mexican Railways. Trade promotion series No. 16. 1925, W. R. Long. R(a) 12.
Modern Trade. Deciding factors in - vested interests, light railways,

Vol. I .- History, constitution, rating and valuation goods traffic.

Modern Railway Administration. A practical treaties by leading Rail-

and cheap haulage. 1923. II. W. Perry.

way Experts. 1927.

Vol. II.—Docks passenger traffic, labour organisation, post war reorganisation, law and index. Graham Publishing Co. R(a) 14.

R(a) 13.

## SECTION B(a).—GENERAL MANAGEMENT OF RAILWAYS—contd.

New South Wales Railways and Tramway Service. Report Commission of enquiry into the ——. 1924.	of the Royal <b>H(d) 12.</b>
New York Central Railroad. The beginnings of the —— 1 Stevens.	926. F. W. R(a) 15.
New Zealand. Report of the Royal Commission of enquiry i Service. 1925.	H(d) 14.
New Zealand and Ceylon Government Railways. Papers on a cerpt Minutes of pros. of the Institute of Civil Engin J. R. Mosse.	the — Ex- neers. 1880. H(m) 1D-3.
Railroad—	
Administration. 1930. R. Morris and W. E. Hooper.	R(a) 16-1.
Finance and Organization. 1915. W. Z. Riply.	R(a) 16-2.
Operations. How to know them from a study of the a statistics. 1900. J. S. Eaton.	R(a) 16-3.
Rates—Service—Management. 1923. H. B. Vanderblu- Burgess.	8(b) 5-12.
Railway Agreements and Amalgamations. Departmental C. Report of the. 1911.	ommittee on <b>H(c)</b> 10.
Railway Economics. Lectures on Indian ——. Part III. 1 way Management). S. C. Ghose.	1923. (Rail- G(g) 14.
Railway(s)—	
1904. E. R. McDermott.	R(a) 17-1.
1825-1925. 1925. J. T. Walton Newbold.	R(a) 17-2.
1928. W. V. Wood and Sir J. Stamp.	R(a) 17-3.
and Budget. 1923. " Economy" and V. G. Kale.	R(a) 17-4.
—— and Nationalism. 1911. E. A. Pratt.	R(a) 17-5.
Control on 1926. P. Burt.	R(a) 17-6.
	es. R(a) 17-7.
Future of ——. 1929. A Brown.	R(a) 17-8.
Government Ownership of ——. 1915. S. O. Dunn.	R(a) 17-9.
History and Organisation of - 1928. L. Monkswe	n.
	R(a) 17 10.
Nationalisation. The case against —. 1915. E. A	. Pratt.
of the World. G. Gibbard Jackson.	R(a) 17-11. R(a) 17-12.
	R(a) 17-12a.
— of to-day; their evolution, equipment and oper	
C. J. Allen.	R(a) 17-13.
Operation. Economics of ——. 1908. M. L. Byers.	R(a) 17-14.

### SECTION R(a).—GENERAL MANAGEMENT OF RAILWAYS—contd.

Railway(s)—contd.		
Organization of —. 1927. S. C. Ghose.	R(a)	17-15.
Organization and management. 1925. Parts I and Peabody—	II.	James
Part I.—Executive, Engineering and operating I	Depar	tment.
Part II.—Traffic, accounting and miscellaneous D		ments. 17-16.
Regulation of —— including a discussion of Governmen versus Government control. 1919. S. O. Dunn.		ership <b>17-17</b> .
Regulations. 1915. I. L. Sharfman.	R(a)	17-18.
Re-organization. 1919. A Railway Officer.	R(a)	17-19.
State —. Failure of. 1924. H. Cox.	R(a)	<b>17-20</b> .
State - ownership. Historical sketch. W. M. Acwor	rth.	
		17-21.
Working. Practical —. 1915. C. Travis, D. R. Lamb Jenkinson.		J. A. 17-22.
Role of State in the Provision of Railways, 1924. H. M. J Sir W. Acworth.		i and g) 17.
Science of Railways, 1902. M. M. Kirkman-		
Vol. I.—Railway equipment.	R(a)	18-1.
Vol. II.—Railway organisation.	R(a)	<b>18-2</b> .
Vol. III.—Railway Financing, construction and mainten	ance.	
Vol. IV.—Railway Train Service.		18-3. 18-4.
Vol. V.—Passenger, haggage, express and mail service.		
Vol. VI.—Freight business and affairs.	• •	18-6.
Vol. VII.—Disbursements of railways.		18-7.
Vol. VIII.—Economic theory of rates; Private versus (control of railways.		nment 18-8.
Vol. IX.—Fiscal affairs : collection of revenue.	, ,	18-9.
Vol. X.—General fiscal and other affairs.		<b>18-10</b> .
Vol. XII.—Engineers' firemens' manual and General Ir	idex.	
		18-12.
South Africa. Union of ——. Report of the Railway Comenquiry. 1914.		on of l) <b>13</b> .
South African Railways—		
Policy of —	the I	nance Inion. •) 19.

#### SECTION R(a).—GENERAL MANAGEMENT OF RAILWAYS—concld.

#### South American Railways-

Part I.—Argentina, 1926. G. S. Brady.

Part II.—Bolivia colombia, Ecuador, Guianas, Paraguay, Peru,
Uruguay, and Venezuela. 1925. W. R. Long. R(a) 20-2.

Part III.—Chile. 1930. W. R. Long.

Southern Rhodesia Railways. Acworth Committee Report on —... 1911.

H(c) 1-1.

Spain. Railways of —... 1923. G. L. Boag.

R(a) 21.

West Indies and Central American Railways, 1925. W. R. Long.

R(a) 5.



## SECTION B(b).—REPORTS AND STATISTICS OF RAILWAYS.

Africa—
South African Railways and Harbours.
Report of the General Manager on —— (Latest). R(b) 1-1.
Railway Tariffs Enquiry Committee Report. 1930. R(b) 1-2.
Union of South ——. Report of Railways and Harbours Boarc. (Latest). R(b) 1-3.
America, United States of—
Railway Statistics of —— and recent statistics of foreign railways (Latest). R(b) 2.
Report on the handling of fuel, layout of engine changing stations and other miscellaneous developments in the ——. 1925. R. C. Case. R(b) 2-4.
Australia—
Commonwealth Railways of Report on the operations of. (Latest). R(b) 3-1.
Western —. Report of the working of the Government Railways, Tramways and Electricity supply. (Latest). <b>B(b) 3-2</b> .
Austria. Railway Statistics of the Republic of —. (Latest).
R(b) 4.
Beira and Mashona Land and Rhodesia Railways. Report of the General Manager. (Latest). R(b) 5.
Belgium Railways—
National Society of ——. Report on the working of the ——. (Latest)—
(Societe Nationale des chemins de fer Belges Sur L'Exploitation).  R(b) 23.
Report on the administration of the —— by the General Manager Commissioner. (Latest)—
(Rapport du College des Commissares). R (b) 23-1.
Brazil. Railway systems of the 1904. R(b) 4.
British Railway Main Line Electrification. Report of the Committee on ——. 1931. Ministry of Transport. H (c) 28.
Canada. Dominion of —. Annual Report of the Department of Railways and Canals. (Latest). R(b) 6-1.
Canadian National Railways System. Annual report of the (Latest). R(b) 6-2.
Central American and West Indies Railways. 1925. W. R. Long. R (a) 5.
Ceylon. Administration Reports of the Railways of (Latest).  B(b) 7.
Chinese National Railways. Statistics of —. (Latest). R(b) 8-1.

## SECTION R(b).—REPORTS AND STATISTICS OF RAILWAYS—contd.

Chinese State Railway. Annual Statistical Report of ---. (Latest)-

(Chemin De Fer DeL'tat chinois). R(b) 8-2.
Frontier Railways. Ruck to Chaman. 1905. A Brief summary of Railways. Ruck to Chaman.
Gaekwar's Baroda State Railways. Administration Report of the
German National Railroad Company. Annual Report of the —. (Deutsche Reichsbahn Gesellschaft). (Latest). R(b) 10-1.
German National Rly. (Railroad) Coy. Statistics and Administration Report of the —— (in German). (Latest) — (Geschaftsbericht Der Deutschen Reichsbahn Gesellschaft Uber Das). R(b) 10-2.
German Railways in the working year. (Latest) (in German) (Die Deutsche Reichsbahn Im Geschaftsjahr). R(b) 10-3.
Gold Coast Railway and Harbour. Administration Report of —. (Latest). R(b) 25.
Great Britain-
Early British Railways. A short history of their origin and development. 1801-1844. 1925. H. G. Lewin. R(a) 8-6.
Railway statistics of ——. Particulars of traffic carried by passenger and freight trains, etc., (monthly issues). (Latest year).
R (b) 11.
Return of Capital traffic, receipts and working expenditure, etc., of Railway Companies of
Return of the number of persons employed and the rates of pay, etc., on Railway Companies of ——. (Latest). Ministry of Transport.  R(b) 11-2.
Return relating to Railways of —. (Preliminary statement).  Ministry of Transport. (Latest).  R(b) 11-3.
Main Line Railways of ——. 1930-31. A study by Railway Research Service based on official figures. 1931. International Union of

#### Indian Railways-

Railways.

of the ---. 1929.

Administration Report on —— from 1879-80.

R (b) 12-1.

R(b) 12-2.

R(b) 11-4.

C(f) 1.

Iraq. Report on the Railways of —— Brigadier General F. D. Hammond. 1927.
R(b) 13.

Great Indian Peninsula Railway Main line electrification. Inauguration

# SECTION R(b).—REPORTS AND STATISTICS OF RAILWAYS—concld.

Lancashire and Yorkshire Railway Electrified Lines. Instructions to staff on —. 1915 and 1919 (2 volumes). C(f) 6-1 & 6-2.
London and South Western Railway Electrified Lines. Instructions applicable to the —
Manila Railroad Company. Report of the (Latest). R(b)15.
Mashona Land and Rhodesia Railways. Beira and ——. Report of the General Manager. (Latest). R(b) 5.
Mexican Railways. 1925. W. R. Long. R(a) 12
New South Wales. Report of the Commissioners on the Railways and Tramways of —. (Latest). R(b) 16.
New Zealand Railways. Statement of ——. (Latest). R(b)17.
Nigerian Railways. Administration Report of the ——. (Latest). R(b) 18
Rhodesia Railways. Beira and Mashona Land and ——. Report of the General Manager. (Latest). Robots B(b) 5
Seirra Leon Railway. Report on the accounts and working of the —. (Latest). R(b) 19.
Siamese Railways. Administration Report on the traffic of of the Royal R(b) 20.
South African Railways. Report on the introduction of electric traction 1919. C(f) 18.
South American Railways— यहामच नायने
Part I.—Argentina. 1926. Brady. R (a) 20-1.
Part II.—Bolivia, Colombia, Ecuador, Guianas, Paraguay, Peru, Uruguay and Venezuela. 1927. W. R. Long. R(a) 20-2.
Part III.—Chile. 1930. W. R. Long. R(a) 20-3.
Electric Traction on the Buenos Ayres Western. C(f) 12.  Southern Railways. Electrified lines. Instruction to Motormen. 1925. C(f) 8.
Spain. Railways of ——. 1923. G. L. Boag. R(a) 21.
Sudan Government Railways and Steamers. Report on. 1924.  R(b) 21.
Uganda Railway. Report on the Administration of — and Marine Services. (Latest). R(b) 22.
Victorian Government Railways. Electrification of the Melbourne Suburban System.

## SECTION 8(a).—COMMERCIAL TRAFFIC, INCLUDING SUBSI-DIARY AND COMPETITIVE TRANSPORT SERVICES.

American Railway Association. Transportation Division. Proceedings of the ——. 1927 and 1928. H(a) 3-10.
Aviation and its Relationship to Railways. The present position of Civil—. 1931. Railway Research Service. G(a) 2.
Carriage by Railway. Law of ——. 1929. H. W. Disney. S(a) 1.
Classification—
Commodity
H(a) 20-1.
General — of goods by merchandise trains. 1913. 8(a) 2-1.
Merchandise — for conveyance by Railway determined by Rates Advisory Committee in accordance with section 29 of the Railways Act, 1921. 1923. 8(a) 2-2.
Grain Elevators—
Indian wheat and —— 1913. F. N. Paton. S(a) 3-1.
in South Africa. Report of a Committee appointed to inquire into and report upon the desirability or otherwise of establishing 1918.  S(a) 3-2.
Notes on ——. Punjab Government Technical paper No. 68. 1913, A. S. Holme. V(b) 3-5.
London Cross River Traffic. Report of the Royal Commission on —
Metropolitan Traffic Manual containing the law relating to road, river and air traffic in London and elsewhere. 1922. C. Romer.
J(c) 17-3.
Organisation and Management of British Railways. 1904. H. M. Ross. S(a) 4.
Passenger, Baggage, Express and Mail Service. Science of Railways. Vol. V. 1902. M. M. Kirkman. R(a) 18.5.
Railway Economics. Lectures on Indian ——. Part II (Transport). 1923. S. C. Ghose. G(g) 14.
Traffic Management—
1926. G. L. Wilson, S(a) 5.1.
Industrial —. 1921. G. B. Lissenden. S(a) 5-2.  Transit—
Convention on freedom of League of Nations Barcelona Con-
ference, 1921. <b>H(s) 9.</b>

Road and Rail — Metropolitan. Some aspects of the — Lecture by H. H. Gordon of the Institution of Civil Engineers. 1919.

H(m) 1E 8.

# SECTION S(a).—COMMERCIAL TRAFFIC, INCLUDING SUBSIDIARY AND COMPETITIVE TRANSPORT SERVICES—contd.

Transport—
Economics and history of 1915. A. W. Kirkaldy and A. D. Evans. G(g) 21.
Road — History and development of 1927. J. Paterson. S(a) 6E-3.
Road Mechanical 1923. C. G. Conradi. S(a) 6E-4.
Royal Commission on — Final Report. Co-ordination and development of Transport. 1931. H. M. Staty: office. H(d) 16.
Wagons as affecting cost of —. Capacity of Railway —. Excerpt Minutes of Pros. of M. Es. 1900. J. D. Twinberrow. H(m) 5-A.
World Motor — Congress. Proceedings of the —. 1927.
H(k) 4.  Transportation—
A survey of current methods of study and instruction and of Research and Experimentation. 1926. V. Topping and S. J. Dempsey.
Address by B. M. Robinson of the American Short Line Railroad Association.  8(a) 6A.
Automotive and Railroad —. A study of relationships now developing between highway and rail transport. 1927. American Bankers' Association. H(a) 22.
Economic phases on —. 1927. Bureau of Railway Economics. H(b) 2-1E.
Econmics of —. 1926. W. T. Jackman. S(b) 2.
Elements of —. 1914 and 1925. E. R. Johnson. S(a) 6B.
Principles of ——. 1928. E. R. Johnson, G. G. Huebner and G. L. Wilson. S(a) 60.
Rail — in Great Britain. The economics of. Vol. I.—History and development. Vol II.—Rates and service. 1928. C. E. R. Sherrington. 8(a) 6D-1.
Railroad —
201101
(Freight) —. 1922. L. F. Loree. S(a) 6D-3. Principles of —. 1924. E. R. Johnson and T. W. Vanmetre.
S(a) 6D-4.
Railway —
C. L. Raper. S(a) 6D-5.
(American). 1903. E. R. Johnson. S(a) 6D-6.
Principles. 1924. E. Jones. <b>8(a) 6D-7</b> .
Road and Rail — Some aspects of empire problems. 1918. F. Dutton. S(a) 6E-1.

# SECTION S(a).—COMMERCIAL TRAFFIC, INCLUDING SUBSIDIARY AND COMPETITIVE TRANSPORT SERVICES—concld.

### Transportation-concld.

Road — Economics of. 1925. K. G. Fenelon. S(a) 6E-2.

Rules of — Department. Instruction paper by the Railway Educational Bureau. Y(a) 8H-2.

Waterway — in the United States. An economic survey of Inland — 1930. Bureau of Railway Economics. H(b) 2-1F.



# SECTION S(b).—TRAFFIC—RATES AND FARES.

Claims. Fixing their values. 1911. G. F. Deiser and F. W. Johnson 5(b) 1
Economics of Transportation. 1926. W. T. Jackman. 8(b) 2
Freight Business and Affairs of Railways. Science of Railways. Vol. 1902. M. M. Kirkman. R(a) 18-6
Freight—
Case and freight costs. How to Calculate. 1922. A. W. E. Crosfield. 8(b) 3-1.
Rates on Export Wheat. A study of the economic effect of reductions in ——. 1930. Bureau of Railway Economics. H(b) 2-1.
Transport by Railway. Cost of —. F. W. Rogerson. 8(b) 3-2.
Merchandise Traffic by Merchandise trains. Scales of standard charges for —. 1928. Railway Clearing House. S(b) 6.
Railway Problems. 1913. W. Z. Ripley. S(b) 4.
Rates—
— and Facilities. English Railway —. An outline of the State Control of —. 1930. H. C. Sparke. S(b) 5-2.
and Fares. Fixing of 1918. H. Marriott. 8(b) 5-3.
and Regulation. Railroads 1924. W. Z. Ripley.  8(b) 5-4a.
— and Regulations. Indian Railways. 1927. N. B. Mehta.  S(b) 5-4b.
and Traffic. Railroad 1925. 2 vols. E. R. Johnson and G. G. Huebner. <b>S(b)</b> 5-5a
and Traffic. Railway 1914. C. Travis and W. M. Acworth. S(b) 5-5b.
- and Valuation. Railroad - 1916. M. Wymond. 8(b) 5-6.
Carriage of materials over railways. Table for calculating cost of —
Economic theory of railway —. Private versus Government control of railroads. Science of Railways. Vol. VIII, 1902.  M. M. Kirkman.  R(a) 18-8
Freight —. Law and theory of Railway —. 1928. K. C. Srinivasan. S(b) 5.8
making. Principles of —. Traffic Management Manual No. 52. Railroad freight rate structures. J(c) 17-2.
Public utility —. A discussion of the principles and practice underlying charges for water, gas. electricity, communication and transportation services. 1917. H. Barker. <b>S(b)</b> 5.9

### SECTION S(b).-TRAFFIC-RATES AND FARES-contd.

Rates—contd.
Railways and their — with an appendix on the British Canal Problem. 1905. E. A. Pratt. 8(b) 5-10a
Railway — Principles and problems. 1926. P. Burt. 8(b) 5-10b
Railway — Tribunal. A guide to. 1927. E. Gorst. 8(b) 5-11a
Railway —— Tribunal; jurisdiction and practice. 1922. G. G. Jones. 8(b)5-11b
Service—Management. Railroads——. 1923. H. B. Vandeblue and K. F. Burgess. 8(b) 5-12
Tariff Book. Official ——. Uganda Railway containing regulation and tariffs. 1915.

regulations **S(b) 7**.



# SECTION 8(c).-TRAFFIC-TRAIN OPERATION.

Adhesion and Abt. Rack Railway. Cost and working of. 1896. Roman Abt. S(c) 1.
Automatic Vacuum Brake. An introductory manual and catechism on the ——. C. H. Gilbanks.  J(c) 18.
British Railway Operation, 1927. T. B. Hare. S(c) 2.
Cars. Self propelled railway passenger ——. 1913. S. T. Dodd and B. H. Arnold.
Ourves. Vehicles passing through ——. Behaviour of Railway. 1898. O. F. Hoffman. S(c) 4.
Derailment of Locomotives. Running of locomotives with reference to their tendency to derail. Engineering paper No. 91. 1930. F. W. Carter. H(m) 1j-91.
Dont's for the Employes of the Operating Department. Instruction paper. Railway Educational Bureau. Y(a) 8H-4.
Freight—
car Problem. The Great Railway —— and its cheapest and best solution. 1907. H. W. Perry. S(c) 5-1.
yards, Terminals and Trains and freight traffic operation. 1925. S. C. Ghose. S(c) 5-3.
London and Brighton and South Coast Railway. Rules and regulations for the guidance of the officers and servants. 1917. J(c) 20.
Motor Coaches on Railways. Road traction and ——. 1903. C. E. Phipps. S(c) 11.
Northern Pacific Railway. A. B. C. despatch system on 1913. II. A. Cameron. S(c) 6.
Rail Power. Rise of —— in War and Conquest. 1933-1914. 1915. E. A. Pratt. S(c).7.
Railroad Operation—
1924. E. Cordeal. <b>S(c) 8-1</b> .
Analysis of —. 1925. J. L. White. <b>S(c) 8-2</b> .
-— and construction. Requirements for passenger lines and recommendations for goods lines of the Minister of Transport in regard to ——. 1925. H. M.'s Stationery Office publication.
S(c) 8-3.
Annual Reviews of ——. Bureau of Railway Economics.  H(b) 2-1A.
Modern — . 1926. D R. Lamb. S(c) 8-4.
Turning of power. Instruction paper. Railway Educational Bureau. Y(a) 8H-3.

# SECTION S(c).-TRAFFIC-TRAIN OPERATION-contd.

Railway Problems of to-day and their solution. 1927.	i(c)	9.
Resistance—		
Curves of a 28-ton electric car. Tractive — on. University of a 28-ton	Dur Dur	n.
Freight train — its relation to car weight. University of Bulletin No. 43. 1910. E. C. Schmidt. V(a	Illind ) 1-1	ois <b>12</b> .
Passenger train ——. University of Illinois Bulletin No. 110. E. C. Schmidt and H. H. Dunn. V(s	19 1-4	
Train — and tonnage rating. Effects of cold weather University of Illinois Bulletin No. 59. 1912. E. C. S. and F. W. Marquis.	chmi	idt
Train —. The predetermination of —. Excerpt Min- pros. of C. Es. 1908. C. A. C. Wilson. <b>H(m</b>		
	3) 10	
	c) 10	<b>)-2</b> .
Vehicles in Trains. Interaction of wheel and rail and its e the motion and the —. 1899.	itect c) 1(	
Road Traction and motor coaches on Railways. 1903. C. E. Pl	iipps (c)	
Rack Railway. Adhesion and Abt. —. Cost and working of Roman Abt.	8(c)	1.
	• •	
	) 8I	<b>I-1</b> .
	truct <b>.) 8.</b>	
Train Control—		
1. In relation to increased weight and speed combined with reduced Headway,  2. Trials in connection with the application of the vacuum brake for long freight trains.  1922. Excerpt Min pros. of C. Es  Rendell and H. I	. A.	W.
H(I	a) 11	
Principles of Locomotive operation and ——. 1915. A. J	. Wo B(b)	
	[(a)	13.
Train Loads. Possibilities of improving ——. A comparison of and South African Railway Practice in the Haulage of coa H. K. Bamber.	f Ind l. 19 <b>5(c)</b>	922.

# SECTION S(c).—TRAFFIC—TRAIN OPERATION—concld.

Trains, Rights of —. 1925, H. W. Forman.

Train Service Railway —. Science of Railways. Vol. IV. 1902.

M. M. Kirkman.

Underground Traffic. Handling of London —. 1928. J. P. Thomas.

S(c) 15.

Yards and Terminals and their operation. 1906. J. A. Droege.



V(a) 1-68.

#### SECTION T.—GAS AND GAS LIGHTING.

Air. Liquid — and the liquefaction of gases. Theory, history, biography, practical application and manufacture. 1899. T. O. Sloane.

#### Acetylene Gas.

- Its nature, properties and uses; and also calcium carbide, its composition, properties and method of manufacture. 1898. G. F. Thompson.
- Lighting by —. Generators, burners and electric furnaces. 1899. W. E. Gibbs.
- Coal. Occluded gases in —. University of Illinois Bulletin No. 32. 1909. S. W. Parr and P. Barker. V(a) 1-4.

#### Gas-

- Cylinders Research Committee. Report of the ---. 1921.
- Fuel—. Analysis. University of Illinois Circular No. 12. 1924. S. W. Parr and F. E. Vandaveer. V(a) 1-53.
- Producer. Tests of a suction —. University of Illinois Bulletin No. 50. 1911. C. M. Garland. V(a) 1-18.
- Gaseous Mixtures. A study of explosions of ——. University of Illinois Bulletin No. 133. 1922. A. P. Kartz and C. Z. Rosecrans.

V(a) 1.68.

सद्यापन नगत

### SECTION U .- FINANCE AND ACCOUNTS.

Accounting-

— and Management of Mines, 1914. L. R. Dieksee. U 1-1.
Audit and Statistics of Railways owned and managed by the Government of India. Report on the system of ——. 1926-27.  A. L. Dickson. Vols. I to III and Supplement. U 1-2.
Procedure, Railway — 1928. E. R. Woodson. U.1-3.
Railroad —. 1916. W. E. Hooper. U 1-4.
Railway — By-products of — 1928. J. H. Parmelee.
T 1-5.
Accountants Dictionary. 2 volumes. Pixley. J(d) 1.
Accounts-
and Audit. Indian Government An introduction to. 1930. U 1-6.
and Finance. Railway Railway Companies (Account and Returns) Act, 1911. A. E. Newhook. U 1-7.
Cost ——.  Key to conomy in manufacture. 1928. W. Straehan. U 1-8a.
Manual of —. 1930. J. H. Lunt. U 1-8b.
Principle and practice. 1927. A. C. Ridgway. U 1-8c.
Railway — their statutory form and the practice of Railway Companies to give effect thereto. 1930. C. H. Newton. U 1-9.
Budget Estimates of receipts and charges on State Railway worked by State. Report on the system of preparing revised and ——. 1929. B. D. Puri. U 2.
Cost Accounts and Factory Administration. A reference book of principles and practice of industrial administration and costing for present day requirements. 1925. E. T. Elbourne.
Costing. Theory and practice of —. 1928, E. W. Newman. U 3-1.
Costs. Business ——. 1926. D. C. Eggleston and F. B. Robinson. U 3-2.
Depreciation and Wasting Assets, and their treatment in computing annual profit and loss. 1920. P. D. Leake. U 4-1.
Depreciation, Reserves and Reserve Funds. 1920. L. R. Dieksee.
Disbursements of Railways. Science of Railways. Vol. VII. 1902. M. M. Kirkman. R(a) 18-7.
Earning Power of Railroads. 1918-19. 1919. Mileage, eapitalization bonded indebtedness, earnings, operating expenses, cost of maintenance, fixed charges, comparative statistics, investments, dividends, guarantees, etc. F. W. Mundy.

# SECTION U.—FINANCE AND ACCOUNTS—concld.

Factory Administration and Cost Accounts. A reference book of principles and practice of industrial administration and costing for present day requirements. 1925. E. T. Elbourne. U 6.
Indian Railway Finance and Administration. Mackay's Committee Report on —
Finance—
British Railway ——. A guide to Investors. 1902. W. W. Wall. U 7-1.
Public — . 1892. C. F. Bastable. U 7-2a.
Science of 1924. G. F. Shirras. U 7-2b.
Railroad —. 1919. F. A. Cleveland and F. W. Powell. U 7-3a.
Regulation of. 1930. J. H. Frederick, F. T. Hypps and J. M. Herring. U 7-3b.
Fiscal Affairs of Railways: collection of Revenue. Science of Railways. Vol. IX. 1902. M. M. Kirkman. R(a) 18-9.
Fiscal (General) and other Affairs of Railways. Science of Railways. Vol. X. 1902. M. M. Kirkman. R(a) 18-10.
Income. Railroad — G. M. Shriver. U 8.
Index Numbers. Making of —. A study of their varieties, tests and reliability. 1923. I. Fisher. U 9.
Investment. Mirror of —— 1927. P. Lovett. U 10.
Loans, etc. Repayment of —. Archers tables for the —— for the use of local authorities and others. 1925. J. A. Archer. U 11.
Public Utilities. Their cost new and depreciation. 1916. H. V. Hayes. U 12.
Rates. Indian Railway —. A monograph on. 1918. S. C. Ghose. U 13.
Railway Accounting Officers' Association. Report of the —— for the years 1925, 1926, and 1927. H(a) 20-1.
Reserves and Reserve Funds and Depreciation, 1920. L. R. Dicksee. U 4-2.
Valuation Tables. 1916. A. E. Mirams. U 14.

#### SECTION V(a).—TECHNICAL PUBLICATIONS—BULLETINS.

#### Illinois University Bulletins-

- No. 6.—Holding power of Railroad spikes. 1906. R. I. Webber. V(a) 1-1.
- No. 22.—Tests of cast iron and reinforced concrete culvert pipe.
  1908. A. N. Talbot. V(a) 1-2.
- No. 31.—Fuel tests with house heating boilers. 1909. J. M. Snodgrass. V(a) 1-3.
- No. 32.—Occluded gases in coal. 1909. S. W. Parr and P. Barker. V(a) 1-4.
- No. 33.—Tests of tungsten lamps. 1909. T. H. Amrine and A. Guell. V(a) 1-5.
- No. 34.—Tests of two types of tile roof furnaces under a water tube boiler. 1909. J. M. Snodgrass. V(a) 1-6.
- No. 35.—Study of base and bearing plates for columns and beams. 1909. N. C. Ricker. V(a) 1-7.
- No. 36.—Thermal conductivity of fire clay at high temperatures. 1909. J. K. Clement and W. L. Egy. V(a) 1-8.
- No. 40.—A study in heat transmission. The transmission of heat to water in tubes as affected by the velocity of the water. 1909. J. K. Clement and C. M. Garland. V(a) 1-9.
- No. 41.—Tests of timber beams. 1909. V(a) 1-10.
- No. 42.—Effect of keyways on the strength of shafts. 1909. H. F. Moore. V(a) 1-11.
- No. 43.—Freight Train Resistance—its relation to car weight. 1910. E. C. Schmidt. V(a) 1-12.
- No. 44.—Investigation of built up columns under load. 1910. A. N. Talbot. V(a) 1-13.
- No. 45,—Strength of Oxyacetylene welds in steel. 1910. II. II. Whittmore. V(a) 1-14.
- No. 46.—Spontaneous combustion of coal with special reference to bituminous coals of the Illinois type. 1910. S. W. Par. V(a) 1-15.
- No. 47.—Magnetic properties of Hensler alloys. 1910. E. B. Stephenson. V(a) 1-16.
- No. 48.—Resistance to flow through locomotive water columns. 1911. A. N. Talbot. V(a) 1-17.
- No. 50.--Tests of a section gas producer. 1911. C. M. Garland.
- V(a) 1-18. No. 51.—Street lighting. 1911. J. M. Byrant. V(a) 1-19.
- No. 52.—Investigation of the strength of rolled zinc. 1911. H. F. Moore. V(a) 1-20.
- No. 53.—Inductance of coils. 1912. M. Brooks. **V(a) 1-21**.

# SECTION V(a).—TECHNICAL PUBLICATIONS—BULLETINS—contd.

Illinois University Bulletins-contd.

No. 54.—Mechanical stresses in transmission lines. 1912. A. Guell. V(a) 1-22.
No. 55.—Starting currents of transformers, with special reference to transformers with Silicon steel cores. 1912. T. D. Yensen. V(a) 1-23.
No. 56.—Tests of columns. An investigation of the value of concrete as reinforcement for structural steel columns. 1912. A. N. Talbot. V(a) 1-24.
No. 57.—Superheated steam in locomotive service. 1912. W. F. M. Goss. V(a) 1-25.
No. 58.—New analysis of the cylinder performance of reciprocating engines. 1912. J. P. Clayton. V(a) 1-26.
No. 59.—Effects of cold weather upon train resistance and tonnage rating. 1912. E. C. Schmidt and F. W. Marquis. V(a) 1-27.
No. 60.—Coking of coal at low temperatures. 1912. S. W. Parr. V(a) 1-28.
No. 62.—Electron theory of magnetism. 1912. E. II. Williams.
V(a) 1-29.
No. 63.—Entropy temperature and transmission diagrams for air. 1913. C. R. Richards. V(a) 1-30.
No. 64.—Tests of reinforced concrete buildings under load. 1913.  A. N. Talbot.  V(a) 1-31.
No. 66.—Properties of saturated and superheated ammonia vapor. 1913. G. A. Goodenough. V(a) 1-32.
No. 67.—Reinforced concrete wall footings and column footings.  1913. A. N. Talbot.  V(a) 1-33.
No. 78.—Study of boiler losses. 1915. A. P. Kratz. V(a) 1-34.
No. 79.—Coking of coal at low temperatures with special reference to the properties and composition of the products. 1915. S. W. Parr. V(a) 1-35.
No. 80.—Wind stresses in the steel frames of office buildings. 1915. W. M. Wilson and G. A. Maney. V(a) 1-36.
No. 81.—Influence of temperature on the strength of concrete. 1915. A. B. McDaniel. V(a) 1-37.
No. 82.—Laboratory tests of a consolidation locomotive. 1915. E. C. Schmidt, J. M. Snodgrass and R. B. Keller. V(a) 1-38.
No. 83.—Magnetic and other properties of iron silicon alloys melted in vacuo. 1915. T. D. Yensen. V(a) 1-39.
No. 84.—Tests of reinforced concrete flat slab structures. 1916.  Λ. N. Talbot and W. Λ. Slater. V(a) 1.40.
No 85.—Strength and stiffness of steel under biaxial leading. 1916. A. J. Becker. V.(a) 1-41.

### SECTION V(a).—TECHNICAL PUBLICATIONS—BULLETINS—contd.

Illinois	University	Bulletinseon	itd.
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- No. 86.—Strength of webs of I-beams and girders, 1916. H. F. Moore and W. M. Wilson. V(a) 1-42.
- No. 88.—Dry preparation of bituminous coal at Illinois Mines. 1916. E. A. Holbrook. V(a) 1-43.
- No. 89.—Specific gravity studies of Illinois coal. 1916. M. I., Nebel. V(a) 1-44.
- No. 91.—Subsidence resulting from Mining, 1916. L. E. Youn I and H. H. Stock. V(a) 1-45.
- No. 92.—Tractive resistance on curves of a 28-ton electric ca.
  1916. E. C. Schmidt and H. H. Dunn. V(a) 1-45.
- No. 94.—Embrittling action of sodium hydroxide on soft steel.
  1917. S. W. Parr.

  V(a) 1-47.
- No. 97.-Effects of storage upon the properties of coal. 1917. S. W. Parr. V(a) 1-48
- Circular No. 4.—Economical purchase and use of coal for heating homes with special reference to conditions in Illinois. 1917. V(a) 1-49.
- Cir. No. 5.—Utilization of pyrite occurring in Illinois bituminous coal.

  1917. E. A. Holbrook. V(a) 1-50.
- Cir. No. 6.-Storage of bituminous coal. 1918. H. H. Stock.

V(a) 1-51.

- Cir. No. 8.—Economical use of coal in Railway Locomotives. 1913. V(a) 1-52.
- Cir. No. 12.—Analysis of fuel gas. 1924. S. W. Parr and F. E. Vandaveer. V(a) 1-53.
- No. 103.—Investigation of twist drills. 1917. B. W. Bendict and W. P. Lukens. V(a) 1-54.
- No. 110.—Passenger train resistance, 1918. E. C. Schmidt and H. H. Dunn. V(a) 1-55.
- No. 121.—Volute in architecture and architectural decoration.
  1921. R. Newcomb.

  V(a) 1-56.
- No. 122.—Thermal conductivity and diffusivity of concrete. 1921.

  A. P. Carman and R. A. Nelson. V(a) 1-57.
- No. 123.—Studies on cooling of fresh concrete in freezing weather 1921. T. Yoshida. V(a) 1-58.
- No. 124.—Investigation of the fatigue of metals. 1921. H. H. Moore and J. B. Kommers. V(a) 1-59.
- No. 125.—Distribution of the forms of sulphur in coal bed. 1921. H. F. Yaney and T. Fraser. V(a) 1-69.
- No. 126.—Effect of moisture contents upon the expansion and contraction of plain and reinforced concrete. 1921. 'F. Matsumoto. V(a) 1-61.

### SECTION V(a).—TECHNICAL PUBLICATIONS—BULLETINS—contd.

Illinois U	Iniversity	Bulletins-	canta.
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- No. 127.—Sound proof partitions. 1922. F. R Watson. V(a) 1-62.
- No. 128.—Ignition temperature of coal. 1922. R. W. Arms.

V(a) 1-63.

- No. 129.—Investigation of the properties of chilled iron car wheels.

  Part I—Wheel fit and static load strains and stresses.

  1922. J. M. Snodgrass and F. H. Guldner. **V(a) 1-64.**
- No. 130.—Reheating of compressed air. 1922. C. R. Richards and J. N. Vedder. V(a) 1-65.
- No. 131.—Study of air steam mixtures. 1922. L. A. Wilson and C. R. Richards. V(a) 1-66.
- No. 132.—Study of coal mine haulage in Illinois. 1922. H. H. Stock, J. R. Fleming and A. J. Hoskin. V(a) 1-67.
- No. 133.—Study of explosions of gaseous mixtures. 1922. A. P. Kratz and C. Z. Rosecrans. V(a) 1-68.
- No. 134.—Investigation of the properties of chilled iron car wheels.

  Part II—Wheel fit, static load, and flange pressure strains ultimate strength of flange. 1922. J. M. Snodgrass and F. H. Guldner. V(a) 1-69.
- No. 135.—Investigation of the properties of chilled iron car wheels.

  Part III—Strains due to brake application co-efficient
  of friction and brake shoe wear. 1923. J. M. Snodgrass and F. H. Guldner. V(a) 1-70.
- No. 136.—Investigation of the fatigue of metals. 1923. II. F. Moore and T. M. Jasper. V(a) 1-71.
- No. 137.—Strength of concrete—its relation to the eement aggregates and water. 1923. A. N. Talbot and F. E. Richart.

V(a) 1-72.

- No. 139.—Investigation of the maximum temperature and pressure attainable in the combustion of gaseous and liquid fuels. 1924. G. A. Goodchough and G. T. Felbeck. **V(a) 1-73.**
- No. 140.—Viscosities and surface tensions of the soda lime silica glasses at high temperature. 1924. E. W. Washhurn, G. R. Shelton and E. C. fabman. V(a) 1-74.
- No. 141.-Investigation of warm air furnaces and heating systems. 1924. A. C. Willard, A. P. Kratz and V. S. Day.

V(a) 1.75.

- No. 142.—Investigation of the fatigue of metals. 1924. H. F. Moore and T. M. Jasper. V(a) 1-76.
- No. 143. Tests on the hydraulies and pneumatics of house plumbing, 1924. H. E. Babbitt. V(a) 1-77.
- No. 144.—Power studies in Illinois coal mining. 1924. A. J. Hoskin and T. Fraser. V(a) 1-78.
- No. 148.—Radio telephone modulation. 1925. H. A. Brown and C. A. Keener. V(a) 1-79.

# SECTION V(s).—TECHNICAL PUBLICATIONS—BULLETINS.—contd.

Illinois University Bulletins—coneld.
No. 149.—Investigation of the efficiency and durability of spur gears. 1925. C. W. Ham and J. W. Huckert. V(a) 1-80.
No. 152.—Investigation of the fatigue of metals. 1925. H. F. Moore and T. M. Jasper. V(a) 1-81.
No. 193.—An X-Ray study of firebrick. 1929. A. E. R. Westman V(a) 1-82.
Industries and Labour Bulletins—
No. 2.—Notes on Manganese Ores. 1921. J. C. Brown. V(a) 2-1.
No. 3.—Notes on Magnesite and Monazite. 1921. J. C. Brown. V(a) 2-2.
No. 4.—International Labour organisation, 1921. A. G. Clow. V(a) 2-3.
No. 6.—Notes on Antimony, Arsenic and Bismuth. 1921. J. C. Brown. V(a) 2-4.
No. 7.—Notes on Wolfram. 1921. J. C. Brown. V(a) 2-5.
No. 9.—Notes on Chromite and Molybdenum, 1921. J. C. Brown V(a) 2-6.
No. 10.—Washington Labour Conference. Official correspondence. 1921. V(a) 2-7.
No. 11.—Notes on Tin. 1921. J. C. Brown. V(a) 2-8.
No. 12.—Notes on Bauzite, Borax, Corundum and Garnet. 1921. J. C. Brown. V(a) 2-9.
No. 13.—Chemical Researches in progress. 1921. V(a) 2-10.
No. 14.—Factory construction and installation in Bengal. 1921. A. T. Weston. V(a) 2-11.
No. 15.—Notes on Mica. 1921. J. C. Brown. V(a) 2-12.
No. 16.—Notes on Indian piece goods trade. 1921. A. C. Coubrough. V(a) 2-13.
No. 17.—Genoa Labour Conference. Official correspondence. 1921. V(a) 2-14.
No. 18.—Proceedings of the HIrd Conference of Department of Industries. 1921. V(a) 2-15.
No. 19.—Notes on Zine and Lead. 1922. J. C. Brown. V(a) 2-16.
No. 20.—Notes on Ashestos. 1922. J. C. Brown. V(a) 2-17.
No. 21.—Chemicals manufactured in India. 1921. V(a) 2-18.
No. 22.—Notes on Barytes and Mineral colours. 1922. J. C. Brown. V(a) 2-19.
No. 23.—Conciliation and Arbitration. 1922. R. N. Gilchrist. V(a) 2-20.
No. 24.—Paper and paper pulp production in the Madras Presidency. 1922. F. Marsden. V(a) 2-21.

# SECTION V(a).—TECHNICAL PUBLICATIONS—BULLETINS—coneld.

Industries	and	Labour	Bulletins-	-coneld.

No. 25.—Giff wire and Tinsel Industry. 1922. V. N. Meida.
V(a) 2-22.
No. 26.—3rd International Labour Conference. 1922. A. G. Clow.
<b>∇</b> (a) 2-23.
No. 27.—Proceedings of the Fourth Conference of Departments of Industries, 1922. V(a) 2-24.
No. 30.—Possibilities of manufacturing portland cement in the United Provinces. 1923. E. R. Watson and K. C. Mukerjee. V(a) 2-25.
No. 36.—Indian Coal Problems. 1927. J. C. Brown. V(a) 2-26.
No. 41.—Eleventh International Labour Conference. 1929.
V(a) 2-27.
No. 43 — Industrial Disputes in India 1921-28 1930. V(a) 2-28

1931. **V(a) 2-29**.

International Bulletins. Refrigeration. Information on —. From 1930. (Issued every second month).

Quarterly Technical Bulletins issued by the Railway Board. From No. 1 of April 1926.

V(a) 4.

No. 46.-Fourteenth International Labour Conference.

सम्बंध स्थत

No. 3.-Notes on the Lower Ganges Bridge works at Sara, Bengal.

No. 11.—Report on the Malir River Boring Investigations for Karachi

No. 17.-Note on the Effluent Farm near Poona (1918-19 to 1925-26).

No. 27.—Report on experiments on Model Culverts made with Hume

No. 28.-Note on Research work done by the Special Irrigation

pipes. 1929. C. G. Hawes and H. S. Kahai. V(h) 1-4.

Division since its formation in June 1916. 1929. C. C.

V(b) 1-1.

V(b) 1-2.

**V**(b) 1-3.

### SECTION V(b).—TECHNICAL PAPERS.

1915. D. R. H. Browne.

Water Supply. 1925.

1927. C. C. Inglis.

Bombay Govt. Technical Papers-

ingus. v(p) 1-5.
No. 29.—Note on experiments carried out with various designs of Piers and Sills in connection with the Liloyd Barrage at Sukkur. 1929. C. C. Inglis, and C. G. Hawes.  V(b) 1-6.
No. 31.—Report on experiments carried out at the Karachi Model Testing Station on a Model of Flumed Regulator. 1929, C. G. Hawes and H. S. Kahai. V(b) 1-7.
No. 33.—Report on experiments carried out in the Central Design Division, Lloyd Barrage and Canals Construction, in the Karachi Testing Station on a model of syphon proposed to be constructed on the N. W. Railway. 1930. C. G. Hawes and H. S. Kahai. V(b) 1-8
Govt. of India Tech. Papers
No. 37.—Note on Housing in the Tropics. 1921. A. Balfour. V(b) 2-1
No. 38.—Notes on Reinforced Brickwork—
Vol. INotes.
Vol. II.—Illustrations, experiments tables, comparative tables, plates, drive tables and plans of certain buildings.
1923. A. Brebner. <b>V(b) 2-2</b> .
Punjab Govt. Technical Papers-
No. 20.—(Supplements only). Water-logging of the soils in the vicinity of Punjab Irrigation Canals and Measures for the
No. 26-A.—Notes on designing adjustable proportional modules.  1925. C. A. Colyer.  V(b) 3-2.
No. 62.—Tube well experiments at Lahore. 1910. V(b) 3-3.
No. 67.—Notes on Aerial Ropeways. 1913. A. S. Holme.
V(b) 3-4. No. 68.—Notes on Grain Elevators. 1913. A. S. Holme.
V(b) 3-5.

### SECTION V(b).-TECHNICAL PAPERS-concld.

Railway Board Technical Papers. From No. 2-A. (Kept in bound volumes—several papers in a volume).

#### Roorkee Professional Papers-

Indian Engineering. A collection of Miscellaneous ---

- (1) 1st series, Vols. I to VII. 1863-1870.
- (2) 2nd series. Vols. I to XI. 1872-1882.
- (3) 3rd series. Vols. I to IV. 1882-1886.
- (4) Index 1st and 2nd series.

V(b) 5.

Royal Engineers Corps Professional Paper. No. 10.—Temporary and semi-permanent water supplies. 1918. V. P. Smith. V(b) 6.

Survey of India Professional Paper. No. 19.—Experiments in aeroplane photo surveying. 1920. C. G. Lewis and H. G. Salmond.

**V(b)** 7.



### SECTION V(c).—TECHNICAL PUBLICATIONS—SPECIFICATIONS.

Bridges and Viaducts. General Specifications for —. 1901. T
British Engineering Standards Association. Specifications. Nos. 1 to V(c) 1
Bombay Govt. Specifications, rates and notes on work compiled for thuse of the P. W. D. in the Bombay Presidency. 1916. E. I. Marryat.
Brigade Superstructures. Highway —. General Specifications for ———————————————————————————————————
Engineering Standards Committee. British Standard Sections issued by the —. (Beams). 1903.
French Railways (Main). Standard Specifications of —. 1929.
Prussian State Railway Board. Specifications for the construction and delivery of locomotives and for the quality and testing of materials for rolling stock with supplement. (3 volumes supplements in cluded).  V(c) 6
Specifications in Detail. 1922. F. W. Macey and J. P. Allen.
Standards and Specifications for Indian Railways. Pros. of the Meetings of the Standing Committee on

सन्यगन नथत

E(a) 32.

Steel Bridges. Specifications for — (taken from "De Pontibus".

J. A. L. Waddell.

E(a) 32.

# SECTION W.—REPORTS AND STATISTICS OTHER THAN RAIL-WAYS.

Agriculture. Statistics of Vol. III. 1914. K. L. Du	tta. <b>G(g) 11-2</b> .
Administration Reports—	
Baluchistan Agency. (latest). Delhi Province. (latest). Indian'Stores Deptt. (latest).	W 1.1. W 1.1. W 1.2.
Age Distribution and Rates of Mortality deduced from the turns, India, 1921, and previous enumerations. 1926. Meikle.	
Census Reports—	
Andamans and Nicobar Isles. Parts I and II. (latest).	W 3-1.
Assam, Parts I and II. (latest).	W 3-2
Baluchistan. Parts 1 and 2. (latest).	W 3-3.
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Bengal, Parts 1 and 2. (latest).	W 3-5
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Bombay Presidency (Cities). Parts I, II and III. (later	st).
	W 3-6a
Burma. Parts I and II. (latest).	W 3-7.
Calcutta (Cities). Parts I and II. (latest).	W 3-8
Central India Agency. (latest).	W 3-9.
Central Provinces and Berar. Parts I and II. (latest).	<b>W 3-10</b> .
Cochin. Parts I and II. (latest).	W 3-11
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Hyderabad State (Deccan). Parts I and II. (latest).	W 3-13
India. Parts I and II. (latest).	W 3-14
Kashmir. Parts I and II. (latest).	W 3-15
Kenya (Colony and Protectorate). Non-native. 192' Baker and A. Walter.	7. A. G <b>W 3-16</b> .
Madras. (latest).	W 3-17
Mysore. Parts I and II. (latest).	W 3-18.
NW. F. Province. Parts I and II. (latest).	W 3-19.
Punjab and Delhi. Parts I and II. (latest).	<b>W</b> 3-20.
Rajputana and Ajmer-Merwara. Parts I and II. (late	
m T / T 7.77 /7-4-4\	W 3-21.
Travancore. Parts I and II. (latest).	W 3-22
United Provinces of Agra and Oudh. Parts I and II.	latest). <b>W 3-23</b>
L286RB	2

# SECTION W.—REPORTS AND STATISTICS OTHER THAN RAIL WAYS—contd.

Communications and Freights. Statistics of ——. Vol. K. L. Datta.	III. 1914. G(g) 11-2.
Emigration to British Guina. Indian —. Report on the —. 1924. P. K. Pillai, V. N. Tivary and G. F. Keatin	scheme for ge. W 4.
Freight and Transportation. Statistics of ——. Vol. III. Datta.	1914. K. L. <b>G</b> (g) 11-2.
India Store Department, London. Report on the work (latest).	of the $\frac{}{\mathbf{W}}$ 5.
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Management of the Railroads. Personnel 1925.	Y(c) 2.
North Western Railway Organization Manual, 1925.	J(c) 7.
Staff Regulations on French Railways. 1920. I. L. O.	Y(b) 8



# SECTION Y(d).—LABOUR AND STAFF—MISCELLANEOUS.

Conciliation and Arbitration. Industries and Labour Bulletin, No. 23. 1922. R. N. Gilchrist. V(a) 2.20.
Conciliation and Arbitration Scheme of 1907. Railway —. Report of the Royal Commission appointed to investigate and report on the working of —. 1911. H. M. S. O. Y(d) 1-1.
Conciliation Scheme. Railway —. Statement of settlements regarding questions as to rates of wages, hours of labour and conditions of service of railway employees, that have been effected under the revised conciliation scheme recommended by the Royal Commission on the Conciliation and Arbitration Scheme of 1907, as amended by the Railway Conference Agreement of December 1911. 1913. H. M. S. O. Y(d) 1-2.
Economic Conditions in India. 1928. P. P. Pillai. Y(d) 2.
Factory Labour in India. Report of the Textile Factories Labour Committee with appendices. 1907. H(c) 34.
Industrial—
Agreements. Report on enquiry into —. 1912. H. M. S. O. Y(d) 3-1.
Disputes in India. 1921-28. Industries and Labour Bulletin No. 43. 1930. V(a) 2-28.
Disputes Investigation Act, 1907. Reports of the Registrar of Boards of Conciliation and Investigation on the proceedings under the —— for the years 1911, 1912 and 1913. (3 volumes).  Y(d) 3-2.
Disputes Investigation Act of Canada, 1907. Report to the Board of Trade on the ——. H. M. S. O. Y(d) 3.3.
Relations. Survey of —
International Labour Conference—
Third —. Industries and Labour Bulletin No. 26. 1922. A. G. Clow. V(a) 2-23.
Eleventh ——. Industries and Labour Bulletin No. 41. 1929. V(a) 2-27.
Fourteenth — Industries and Labour Bulletin No. 46. 1931. V(a) 2-29.
International Labour Organisation. Industries and Labour Bulletin, No. 4. 1921. A. G. Clow. V(a) 2-3.
Labour—
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commission. Indian Factory Report of the. 1908. (2 volumes.)
conference, Genoa. Official correspondence. Industries and Labour Bulletin No. 17. 1921. V(a) 2-14.

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- in India. Royal Commission on —. Evidence Volumes I to XI. H(d) 19.
- Strike. Missouri and North Arkansas Railroad 1906. O. T. Gooden. Y(d) 5.1.
- Strikes and Lock-outs. Memoranda prepared from information in the possession of the Labour Department of the Board of Trade relating to the text and operation of certain law in the British Dominions and Foreign Countries affecting strikes and lock-outs with special reference to Public Utility Services. 1912. H. M. S. O. Y(d) 5-2.
- Working Class Budgets in Bombay. Report on an enquiry into——.
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Hughes, H. W. Text books of coal mining.	M 4.
Hulse, E. P. Are welding.	F(c) 7.

Hunter, A. Arrol's Bridge and Structural Engineers' hand	book.
	E(d) 2.
Hurst, J. T. and T. Tredgold. Elementary principles of car	rpentry.
	E(f) 2.
Husband and Harby. Structural engineering.	E(d) 26-2.
Hypps, F. T. Railroad finance regulations.	<b>U</b> 7-3b.
Ilbert, Sir Courtenay. Digest of law relating to Govt. of Inc.	
Indian Munitions Board. Industrial Handbook.	G(d) 4.
Indian Stores Department. Notes on paints, etc.	G(n) 3.
Oils and lubricants.	G(n) 4.
Inglis, C. C. Effluent Farm near Poona.	V(b) 1-3.
Research work by Spl. Irrigation Divn.	
and V. K. Gokhale. Soil and sub soil surveys.	
	and sills at
	* *
	ction Y (b).
International Union of Railways. Main line railways of G	• •
The state of the s	R(b) 11-4.
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, H. S. and R. P. Davis. Foundation of bridges and	buildings.
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Elements of Transportation.	<b>S</b> (a) 6-B.
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Johnson, E. R., G. G. Huebner and G. L. Wilson. Princip portation.	oles of Trans- S(a) 6-C.
Railroad rates and traffic	
	S(b) 5-5a.
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, F. W. See G. F. Deiser.	
, J. B. Materials of construction.	E(f) 7.
	E(a) 46 to 48.
, •	S(a) 6D-7.
Jones, E. Principles of railway transportation.	
, G. G. Railway Rates Tribunal : jurisdiction and	8(b) 5-11b.
m see vo	
, J. W. Permanent way pocket book.	E(d) 21.
Joyce, H. W. Economy in design and construction of br	
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Kempe's Engineers' Year book.	E(d) 12-4.
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Kennedy, D. Screw pile jetty at Bhavnagar.	H(m) 1J-95.
, W. S. New Electricity Act (English), 1927.	<b>A</b>  77.
Ketchum, M. S. Bins, walls and grain elevators.	E(b) 20.
. Structural Engineers' handbook.	E(d) 26-3.
Kidder, F. E. and T. Nolan. Architects' and Builders poe	ket book. <b>E(d)</b> 1.
Kinetic theory of engineering structures.	E(d) 12-8.
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Kneier, C. M. State regulations of public utilities in Illin	G(g) 18.
Knight, E. A. Dictionary of mechanics.	J(d) 10.

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, B. Track for trunk line traffic.	H(m) 8.
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, L. P. Mechanical railway signal engineering.	<b>E(b)</b> 1.
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L286RB	т2

Little, J. G. See R. V. Wright.	
Lobban, C. H. Some deflection problems.	H(m) 1J-80.
Lock, R. B. Elementary trigonometry.	Q 12.
Locomotive Publishing Co., London. Loco. Engineers' poe	
boomouve I abusing Co., London. 1000. Migniters poe	E(d) 14-2.
Tadas T T Signalling through sugar without minus	
Lodge, L. J. Signalling through space without wires.	<b>E</b> (m) 1.
——, C. H. and R. Trautschold. Machinist Gear Book A	
w.232 0. 2	F(d) 9.
Loidis. Swing bridges.	E(a) 34.
Louis, H. See J. A. Phillips.	
London publishing Co. Vacuum brake, antomatic.	D 7.
Long, W. R. Central American and W. I. Rlys.	R(a) 5.
Mexican Railways.	R(a) 12.
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Longman Green and Co. Notes on building construction.	E(b) 5-6.
Loree, L. F. Railroad freight transportation.	S(a) 6D-3.
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Low, D. A. Mechanical Engineers' pocket book.	E(d) 19-3.
Lukens, W. P. Investigation of twist drills.	V(a) 1-54.
Lunt, H. J. Cost accounts manual.	U 1-8b.
Lushington, A. W. Madras timbers.	L 14-10.
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Lyndon, L. Hydro-electric power.	C(d) 5.
Machinery publishing Co., N. Y. Machinery's handbook shop and drafting	for machine
MacDermott, E. T. History of G. W. Railway.	E(d) 15-2. G(h) 4.
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Macey, F. W. and J. P. Allen. Specifications in details.  Mac Elwee, R. S. Ports and terminal facilities.	E(p) 2.
Macnamara, W. H. Carriers' law.	A 36.
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Marryat, E. L. Specifications, rates and notes on work con use of the P. W. D., Bombay.	npiled for the $V(c)$ 2.
Marsden, F. Paper and paper pulp production in Madra	* *
Marsh and Dunn. Reinforced concrete manual.	E(d) 6-1.
Marshall, A. Industry and trade.	G(d) 9.
, D. F. D. Resistance of express trains.	S(c) 10-1.
, P. & Co. Electric batteries.	C(a) 1.
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matheson, D. S. Subaddeous tunnering in compressed air.	H(m) 1J-43.
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, E. O. and E. R. Calthrop. Pioneer irrigation man	rual,
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Maycock, W. P. Electric light and power distribution.	C(d) 8.
Electrical notes and definitions.	C(c) 1.
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McAuliffe, E. Railway fuel.	M 8.
McCullough, E. Reinforced concrete manual.	E(c) 19.
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, V. N. Gilt wire and tinsel industry.	<b>V</b> (a) 2-22.
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Melan, J. Suspension bridges and arches. Theory.	E(a) 33.
Merriman, M. American Handbook for Civil Engineers.	E(d) 5-2.
	E(e) 8.
Metcalfe, C. C. Electric wiring for lighting installations.	C(d) 15.
Meyer, B. H. Railway regulations. 1901.	A 149-1.
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, A. B. Effective width of a plate supported by a bea	am.
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Minchin, G. M. Hydrostatics and elementary hydrokinetics.	
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Ministry of Transport. Electricity supply acts. 1882-1922.	A 78.
	ly) U.K.
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Railway accident reports (Yearly)	U. K.
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Railway statistics (particulars of tr	affic), quar- <b>R(b) 11</b> .
Railway statistics (Return of car yearly.	oital, etc.), <b>R(b) 11-1</b> .
Railway statistics (Staff).	R(b) 11-2.
	•
Mirams, A. E. Valuation tables.	T 14,
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Mitchell, H. V. Oil fuel and their applications.	M 14.
Mitra, N. N. Manual of surveying.	E(j) 18.
	E(d) 7-1.
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Moberly, F. G. Mesopotamia campaign. Official history	of war.
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Mokerjee, Sir R. N. Bridging the gulf.	G(m) 4.
Molesworth, Sir G. L. Pocket book of engineering form	ulac.
	E(d) 12-2.
Molitor, D. A. Kinetic theory of engineering structures.	E(d) 12-8.
Mollier, R. Steam tables and diagrams.	B(b) 2.
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Montgomerie, J. Large size rivetted joints.	E(a) 40.
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Moore, E. C. S. Ganguillett and Kutters' formula for the in open channels, etc.	• •
Sanitary Engineering.	E(g) 1.
, H. F. Fatigue of metals.	V(a) 1-71.
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Murray, J. Travellers' guide to India, Burma and Ceylon.	J(k) 8-2.
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Whirling speeds of loaded tapered shafts.	
	H(m) 1J-24.
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Nelson, R. A. Thermal conductivity and diffusivity of co	ncrete.
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Newton, C. H. Railway accounts (Statutory form).	U 1-9.
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	11(III) 10 -01.
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Norton, H. K. Far Eastern republic of Siberia.  Oliphant, F. M. Air seasoning and conditioning of timbers.	_ i
Ollenbach. Indian Coleoptera.	L 12-41.
Orrock, J. W. Railroad structures and estimates.	E(d) 23-2.
Osborn, F. C. Tables of moments of inertia.	Q 11-1.
, H. S. and M. W. V. Bernewitz. Prospectors' field b	ook.
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The second of the second of the The Second of the Second o	H (m) 1J-90.
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, R. N. Eucalyptus in the plains of N. W. India.	L 3-11.

Parker, R. N. Herbarium of the Forest Research Instit Bulletin No. 73. 1931.	ute. Forest <b>L</b>   <b>3-20.</b>
Indian forest plants.	<b>L</b>  12-36.
Indian forest plants.	L 12-55.
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	V(a) 1-48.
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	H(m) 1J-74.
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Pascoe, E. H. Memoirs of geological survey of India.	G(k) 5.
Pashler, A. J. P. Development of heating of buildings.	H(m) 1J-84.
Paterson, J. Road transport.	S(a) 6E-3.
, W. and H. Webster. Loco. running shed manag	ement,
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Pearson, R. S. Antiseptic treatment of timber in India.	L 12-1.
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Pender and DelMar. Electrical Engineers' handbook. Pendred, V. Railway locomotive.	E(d) 11-3. B(b) 19.
Penn, S. and A. W. Byberg. Weight tables of different leng square, flat, etc., of metal	th of rom d,
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Perrott, S. W. and F. E. G. Badger. Permanent-way working.	and survey- <b>E(j) 19</b> .
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, H. W. Freight car problem, Great Railway.	S(c) 5-1.
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Persons, W. M. Business forecasting.	G(g) 2.
Peyton, W. H. On the road to Delhi.	G(m) 1.
• • -	G(m) 13-2.
Railway stores organization.	
Phillip, G. H. and T. S. Shelduke. Chambers of commerce	J(a) 2.
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Phipps, C. E. Road traction and motor coaches on railway	7s. <b>S(c) 11.</b> <b>E(e) 2</b> .
Pickels, G. W. Drainage and flood control engineering.	• •
Pickworth, C. N. Manual of slide rule.	Q 10-2.
Pierson, R. K. Air craft.	H(m) 1E-1.
Pilchar, G. —, R. W. Smyth and J. C. Coyajee. Effect of el the future of commercial	progress in
India.	G(d) 12.
Pilgrim, J. A. Burma oak and chestnut tans.	L 12-20.
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a trateral At me met as one-Bee as I among	H(m) 1J-78.
= 2214-221-23	H(m) 1J-35. H(m) 1J-61.
a company and the tree tree tree tree tree tree tree	J(d) 1.
Pixley. Accountants' Dictionary.  Popatlal. See Dayabhai.	• (u) 1.
Popham, F. J. Up-to-date Summary of results of treated	experimental
sleepers on Rly. in India. Forest Bulletin l	No. 74. 1931.
	<b>L</b>  3-21.
Forest Bulletin No. 75. 1931.	ank process. L 3-22.
Porter, C. T. Steam engines.	B(b) 6.
Portevin, L. Metallography and micrography.	G(k) 9.
Powell, E. B. S. Motor converters versus rotary converters	
	H(m) 1J-73.
, F. W. Railroad finance.	U 7-3a.

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———. Inland transport and communication. Great	Britain. <b>R(a) 8-1.</b>
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Western Australian Government Railway. Instructions gineers.	
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- H. G. N. Indigenous timbers.	<b>L</b>  14-8.
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Whittaker. Electrical Engineers pocket book.	E(d) 11-4.

Whittaker, E. T. and G. Robinson. Calculus of observations	s. Q 1-6.
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